

LIBRARY OF THE UNIVERSITY
OF ALBERTA

Animal Science
Agri

12. DEC. 1949

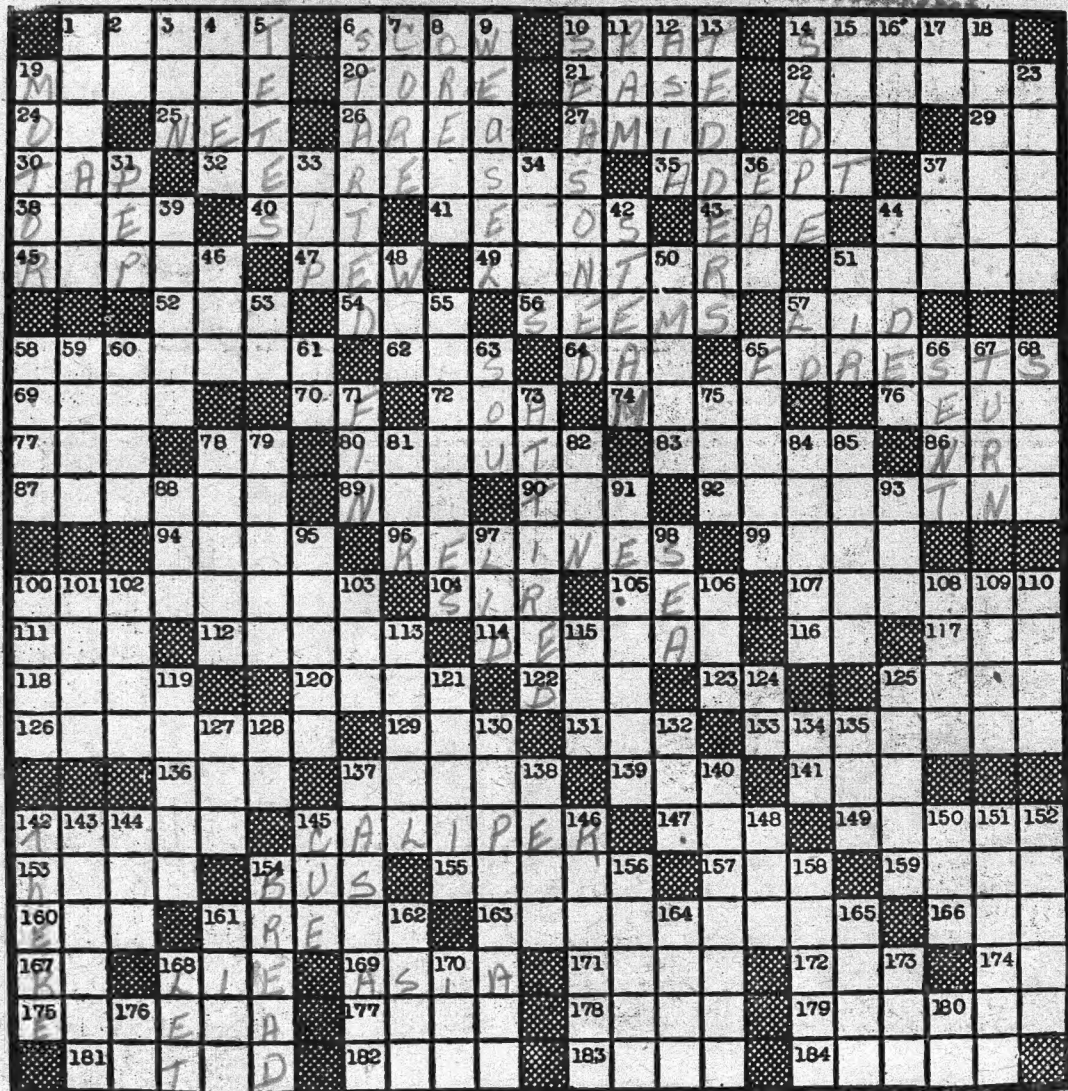
Farm and Ranch REVIEW

December
1949



BARD
S
560
F225
v.45:
no.12
1949

OUR CROSSWORD PUZZLE



HORIZONTAL

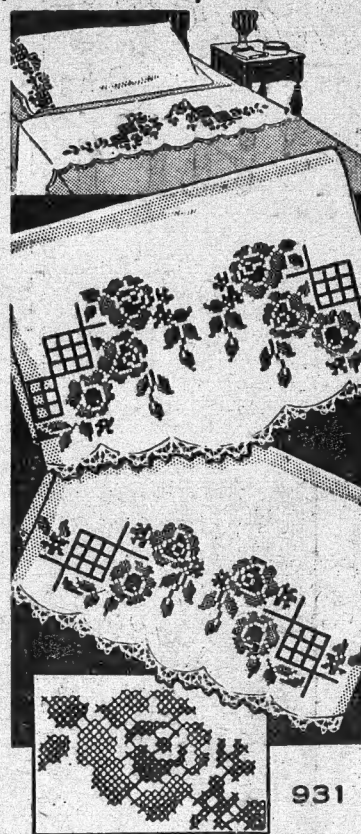
- | | | |
|----------------------|------------------------|------------------------------|
| 1 Raise | 62 Encore (Fr.) | 123 Indefinite article |
| 6 Flat-bottomed boat | 64 Obstruct | 125 Drug |
| 10 Quarrel | 65 Wooded tracts | 126 Lessees |
| 14 Pretends | 69 Fibre plant | 129 Seed covering |
| 19 Mental state | 70 Preposition | 131 Humor |
| 20 Ripped | 72 Extinct bird | 133 Fervid |
| 21 Facility | 74 Tableland | 136 Organ openings |
| 22 Part of leafstalk | 76 Wax | 137 Ladled |
| 24 Hindu ejaculation | 77 Danish division | 139 Mongrel |
| 25 Seine | 78 The Buddha | 141 Prefix: more than |
| 26 Extent | 80 Attribute | 142 Particular episode |
| 27 Among | 83 Carved pole | 145 Measuring instrument |
| 28 Palm leaf (var.) | 86 Formerly | 147 Procure |
| 29 Spanish article | 87 List | 149 To cloud |
| 30 Knock lightly | 89 Nothing | 153 Now |
| 32 Diminishes | 90 An appendage | 154 Conveyance |
| 35 Well-skilled | 92 Chose | 155 Europeans |
| 37 Insane | 94 Toward the mouth | 157 Race of lettuce |
| 38 Molding | 96 Supplies new lining | 159 Mysterious saying |
| 40 Rested | 99 Fodder pit | 160 Antlered animal |
| 41 Greek island | 100 Chorus hymns | 161 Embrace |
| 43 Before | 104 Title | 163 Groups of soldiers |
| 44 Inlet | 105 Prefix: new | 166 Prickly seed case |
| 45 Drive back | 107 Sums | 167 A state (abbr.) |
| 47 Church bench | 111 Event | 168 Fabrication |
| 49 Fuzz | 112 Openings | 169 Orient |
| 51 Quail | 114 To behave | 171 Greedy |
| 52 Knock | 116 Plural ending | 172 Part of head |
| 54 French: of the | 117 French: wine | 174 Prefix: concerning |
| 56 Appears | 118 God of war | 175 Expression of triumph |
| 57 Cover | 120 Pheasant broods | 177 Exact |
| 58 Followers of Shem | 122 Click beetle | 178 Path |
| | | 179 The spring of life (pl.) |
| | | 181 Matched |
| | | 182 Grit |
| | | 183 Terminations |
| | | 184 Factions |

VERTICAL

- | | | |
|----------------------|-------------------------------|---------------------------|
| 1 Allegiance | 57 Preposition | 115 To cut |
| 2 Conjunction | 58 District in Germany | 119 Rock |
| 3 Man's name | 59 Sailors' patron saint | 121 Stable |
| 4 Winter vehicle | 60 Clever sayings | 124 Symbol for nickel |
| 5 Heads (Fr.) | 61 Therefore | 125 Restrain |
| 6 Began | 63 French coin | 127 Unit of force |
| 7 Center | 65 The Parcae | 128 Sun god |
| 8 Mountain nymph | 66 Dispatched | 130 Took leave |
| 9 Carnivorous mammal | 67 Corner | 132 River boat |
| 10 Spiced | 68 Spore | 134 Japanese drama |
| 11 Knave in cards | 71 Fish limb | 135 Vat |
| 12 Continent | 73 Clothed | 137 Short-legged hounds |
| 13 Hay | 75 Danger signal | 138 Sand hill (var.) |
| 14 Incline | 78 Untamed | 140 Retreats |
| 15 A handle | 79 Pope's veil | 142 At that place |
| 16 Turkish officer | 81 Russian community | 143 Gaseous element |
| 17 Greek letter | 82 To bring forth | 144 Irritate |
| 18 Untwisted silk | 84 Choice part | 145 Billiard stick |
| 19 Engine | 85 Greek island (var.) | 146 Luxurious repast |
| 23 Church officer | 88 Jutting rock | 148 Measure of weight |
| 31 Energy (slang) | 91 Of a characteristic nature | 150 Confer rank upon |
| 33 Top | 93 Portable bed | 151 Accustoms |
| 34 Nome in Greece | 95 Church officers | 152 Shallow lakes |
| 36 Bitter vetch | 97 Cover | 154 Staff of life |
| 37 Pile of hay | 98 Body of water | 156 Jewish month |
| 39 Weird | 100 Scorch | 158 Walks |
| 42 Vapor | 101 Rabbit | 161 Kind of fish |
| 44 Vestment (pl.) | 102 Candid | 162 Girl's name |
| 46 Latvian coin | 103 The heavens | 164 Intention |
| 48 Texture | 106 South American Indian | 165 Hindu women's garment |
| 50 Ant | 108 English river | 168 Permit |
| 51 The heart | 109 Brims | 170 Brightest star |
| 53 Hebrew letter | 110 Dirk | 173 Free |
| 55 Medicinal herbs | 113 Part of flower | 176 Symbol for radium |
| | | 180 Pronoun |

SOLUTION NEXT MONTH

Quick Beauty



CROSS-STITCH rose motifs are simple to embroider; space to put an initial if you wish. Use varied colors or shades of one.

Eight-to-the-inch. Crosses are done quickly. Pattern 931; transfer; one 6 x 24 inch; two 5 x 13½.

Laura Wheeler's improved pattern makes needlework so simple with its charts, photos and concise directions. Send TWENTY-FIVE CENTS in coins (stamps cannot be accepted) for this pattern to Farm and Ranch Review, Needlecraft Dept., Calgary.

□ □ □

Quilted and Cosy



YOUR heart is on your boots—and aren't they simply beauts? Look—just THREE pattern parts to each boot. Easy sewing.

Gay quilted boots to keep you warm! Pattern 849 has pattern in small, medium, large, extra large.

Send TWENTY-FIVE CENTS in coins (stamps cannot be accepted) for this pattern to Farm and Ranch Review, Needlecraft Dept., Calgary, Alberta.

UNIVERSITY LIBRARY
UNIVERSITY OF ALBERTA

**LONGER LIFE
AT LOWER COST..**

**GENERAL
Radio
BATTERIES**

**SUPER
BUILT
"B" BATTERY**

**AAA
POWER
PACK**

22-9

**GENERAL DRY BATTERIES
OF CANADA LIMITED**

**END COSTLY
BREEDING
FAILURES**

**WITH REX
WHEAT GERM
OIL**

REX

VIOLIN (CANADA) LTD. St. Thomas, Ont.

**FAST, EASY
CLIPPING
to keep
cows
clean**

**WITH THE
POWERFUL**

**Sunbeam
STEWART
ELECTRIC
CLIPMASTER**

Operates on
110-120 volt, AC or DC, 25 or 60 cycle.

Nationally known Dairy and Health Authorities say: Clipping prevents dirt accumulation—the chief source of sediment in milk. Clipped cows are easier to keep clean, take less time—produce milk with lower bacteria count and less sediment—it is more desirable milk, brings more money. For best clipping results use Clipmaster. Powerful, air-cooled, smooth-running motor inside the Easy-grip handle. Patented tension control, easy to maintain perfect tension of blades. Impossible to overload motor. C.S.A. Approval No. 3100.

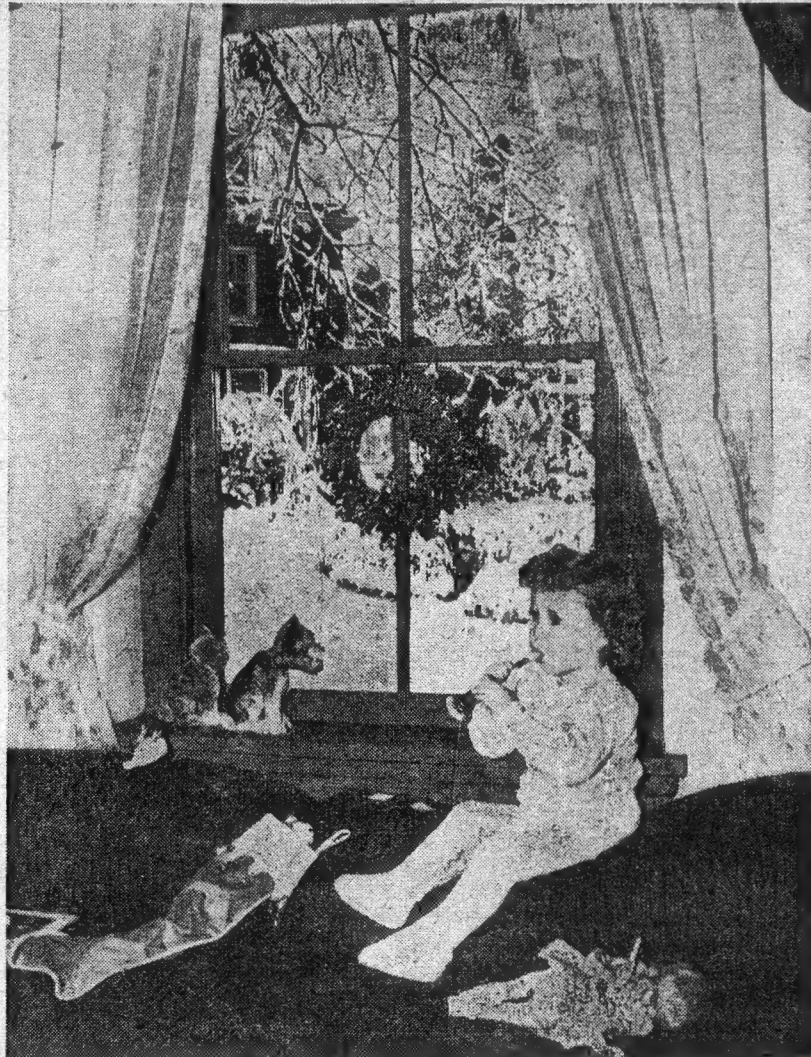
Clips Cows, Horses, Dogs, Goats

Sheep Shearing Attachment for shearing wool next spring, is available to fit above machine. Shear your own—make more money.

Sold through dealers

SUNBEAM CORPORATION (CANADA) LTD.
221 WESTON ROAD, TORONTO 9

Christmas Morning



In Highland Park, Mich., police arrested Francis Vivian and took away his arsenal: a long-bladed knife, a blackjack, bow and arrows.

Poultry needs balanced winter feed

By the time pullets reach the laying house, they constitute a considerable investment. If this investment is to pay dividends, egg production must continue at a reasonably high level through most of the year. If pullets are to maintain a high egg production, they must receive a balanced ration.

A balanced ration is one that supplies all the nutrients required to support a particular function. In the case of a laying flock, the ration must be balanced to support the production of eggs. Farm grains alone do not supply all the nutrients needed. Additional protein, minerals and vitamins must be added. Some of these nutrients can be supplied economically when good quality alfalfa hay and skim milk are available on the farm. Vitamin D is needed for winter or indoor conditions and this can best be supplied by a good grade of feeding fish oil.

During cold weather, the birds will not drink enough milk to supply their protein requirement and it is necessary to feed a laying concentrate or balancer. Limestone grit and oyster shell should be available to the birds at all times. Plenty of fresh, clean drinking water is also essential.

Bulletins dealing with poultry rations and feeding methods are obtainable, upon request, from the Experimental Farm, Brandon.

Farm and Ranch Review

VOL. XLV. No. 12
CALGARY, DECEMBER, 1949

Founded in 1905 by
Chas. W. Peterson
James H. Gray, Editor
Martha Olson, Home Editor

P. Peterson,
Advertising Manager
EASTERN ADVERTISING OFFICES
414 Metropolitan Bldg.
Toronto, Ont.
W. H. Peirce, Representative

CONTENTS

	Page
Editorials	5 and 6
The World to the Blind	7
Gifts of the Magi	8
Profitable Dog Hobby	12
Fun Page	28
Christmas in the Home	29
I Believe in Santa	33
Yuletide Gifts	35
Patterns	2, 30 and 36

Published Monthly by
Farm and Ranch Review Limited
Printed by Western Printing &
Lithographing Co. Ltd.
Graphic Arts Bldg., Calgary, Alta.
Entered as Second-class Mail
Matter at the Post Office,
Calgary, Alta.
Member of the
Audit Bureau of Circulations

**STARTS to
work in
2 seconds**

**EASE NEURITIC
NEURALGIC PAIN
ASPIRIN**

LOWEST PRICES
32 tablets ... 18c
24 tablets ... 25c
100 tablets ... 75c

**GENUINE ASPIRIN
IS MARKED THIS
WAY**

BAYER

**Announcing the
WINNER**
of the Calgary Stampeder
Football Club 1949 Hudson
R. J. WALL
Bassano Alberta

It Costs So Little to

**Give the Gift
of Hearing**

**Tiny Single
Unit Is All
One Wears**

\$75

Complete

Make Some DEAFened Person Happy

This Christmas will some hard-of-hearing loved one or friend have to sit in silence through the Christmas church services and all the happiness others will enjoy through the holiday season? What a thrilling experience awaits the deafened person given this newest

ZENITH "Miniature" Hearing Aid

Here's surprisingly good news for any hard-of-hearing person who can be helped by a hearing aid. This new, tiny, beautifully designed "Miniature" weighs only 6 1/2 ounces. Only \$75.00 complete with batteries; ready to wear. Needs no "fitting." See what you save! If any \$200 hearing aid is more modern, or outperforms the Zenith in efficiency or economy, your money back under our 10-Day Return Privilege. For authorized Zenith Hearing Aid Dealer in your locality consult your classified telephone book; or write direct for complete coast-to-coast dealer list.

Makers of World Famous Zenith Radio, EM and Television Sets.

Zenith Radio Corporation of Canada, Ltd.
Dept. 1277, Canada Trust Bldg.
Windsor, Ontario

Please send me details and complete descriptive literature (including time payment plan) on the new \$75 Zenith "Miniature."

Name

Address

City

60 YEARS OF ACCOMPLISHMENT

1889  1949

In early days, cream was skimmed from the top of milk left standing overnight in pans in a cool, deep cellar. Or cans of milk were immersed in cold water from the well or spring. When the cream had risen to the top, the milk was drained out of the bottom of the can leaving the cream, which was then churned in a dash churn or barrel churn. Today in modern dairy plants no care or expense is spared in protecting the purity of milk, cream and other dairy products. Nickel alloys are used in pasteurizers, coolers, bottling machines and other equipment, because these alloys are corrosion-resistant and easy to keep clean and sanitary.



Canadian Nickel sold Abroad brings in U.S. Dollars

Since more than ninety per cent of the Nickel produced in Canada is sold to the United States and other countries, it brings a constant flow of dollars back to Canada. In fact, Canada's Nickel industry is one of our chief sources of U.S. dollars so essential at the present time to maintain our foreign trade and make available products not produced in this country.

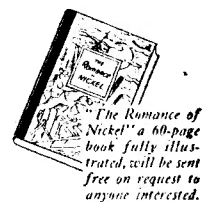
These dollars help pay the wages of the 14,000 Nickel employees, and help provide the dollars which make it possible to pay millions in freight to Canadian railways, to buy timber, steel, coal, machinery and supplies amounting to many millions each year.

These millions, flowing into all industries through the length and breadth of Canada, help create jobs for Canadians.



CANADIAN NICKEL

FIRST PRODUCED IN CANADA IN 1889



THE INTERNATIONAL NICKEL COMPANY OF CANADA, LIMITED, 25 KING STREET WEST, TORONTO

Farm and Ranch Review Editorials

That We Love One Another

And, behold, a certain lawyer stood up, and tempted him, saying, Master, what shall I do to inherit eternal life?

He said unto him, What is written in the law? how readest thou?

And he answering said, Thou shalt love the Lord thy God with all thy heart, and with all thy soul, and with all thy strength, and with all thy mind; and thy neighbour as thyself.

And he said unto him, Thou hast answered right: this do, and thou shalt live.

But he, willing to justify himself, said unto Jesus, And who is my neighbour?

And Jesus answering said, A certain man went down from Jerusalem to Jericho, and fell among thieves, which stripped him of his raiment, and wounded him, and departed, leaving him half dead.

And by chance there came down a certain priest that way: and when he saw him, he passed by on the other side.

And likewise a Levite, when he was at the place, came and looked on him, and passed by on the other side.

But a certain Samaritan, as he journeyed, came where he was: and when he saw him, he had compassion on him.

And went to him, and bound up his wounds, pouring in oil and wine, and set him on his own beast, and brought him to an inn, and took care of him.

And on the morrow when he departed, he took out two pence, and gave them to the host, and said unto him, Take care of him; and whatsoever thou spendest more, when I come again, I will repay thee.

Which now of these three, thinkest thou, was neighbour unto him that fell among the thieves?

And he said, He that shewed mercy on him. Then said Jesus unto him, Go, and do thou likewise.

Let's negotiate a Customs Union while we still have some resources

HAS the incessant repetition of a singing commercial ever given you an urge to attack your radio with a meat axe? You'll understand how we are beginning to feel about the dunderheads who keep repeating that discovery of huge oil resources in Alberta has helped solve our American dollar shortage.

That dollar shortage bears directly upon every producer of food on the prairies. Because it does, we have no need to apologize to anyone for writing about it so often and at such length. Until some method is discovered to more nearly balance British and Canadian imports and exports to the United States, Canadian agriculture will live in a continuing crisis. And when, through stupidity or intent, an effort is made to becloud the thinking of our producers it's our business.

What are the facts? In the past two years far more than a billion barrels of oil have been proven up in Alberta. Title to that oil has been alienated to American oil companies. They own it. To profit from it they must either sell it in Canada and export their dollars or they must export the oil. In either case, there is an adverse balance in the American dollar account for Canada.

If the oil is exported, the dollars paid for it in the United States belong to the American companies in the United States who own the oil. If it is sold in Canada for Canadian dollars, we must provide the American owners of these Canadian dollars with American dollars to export to their home offices. Of course if the ownership of these oil resources had remained in Canada, none of this would be true.

It is obvious of course, that some easing of the current problem results from the increased use of Canadian oil in Canada. We save, temporarily, some \$60,000,000 in American funds that we would otherwise have had to use to import American oil. But in accomplishing that we have acquired a li-

ability to American oil companies in American funds of upwards of \$1,000,000,000 for the oil discovered but not yet produced. That liability grows as more oil is discovered. Indeed today some experts put the figure at over \$2 billions.

The Primrose Path

One of the reasons why we have such a whopping dollar deficit in American funds today is because Governments in the past encouraged American investment in Canadian plants. The original investment of American capital in oil development in Canada has been repaid many times over in dividends. At the same time profits from Canadian operations have been plowed back in. And all this has multiplied Canada's liability in American dollars for the future.

Let's take a hypothetical case. An American oil company started investing in Canada 40 years ago. It brought in, say, a grand total of \$40,000,000 in American funds. But through the years it has paid back into the United States a total of \$150,000,000 in dividends. At the same time it has built up its Canadian assets to \$150,000,000. The American stockholders of that company have a claim on Canada for that many American dollars. They brought \$40 millions in. They will ultimately take \$300 millions out. We have lost \$6 for every \$1 brought in.

All this brings us to the one particular point. If we are to maintain our standard of life we have got to more nearly balance our American trade, not by restricting imports but by a vast increase in exports. That can only be done by some such instrument as a Customs Union. But such a union can only be achieved if conditions are right for it. In short, we should press for such a union while we have things to export that Americans want, and while there are substantial interests in the United States who want our exports.

Those interests exist now. They want our oil, our iron ore, our strategic minerals, our forest products, and our uranium. They know that they will find it difficult if not impossible to get their investments out of Canada unless they can be moved freely into the United States. Other interests in the United States would oppose entry of Canadian goods. But the time to achieve a Customs Union is when we have a large and influential group inside the United States who will press for it. Once they have exhausted our oil resources, our iron ore and our other minerals their interest will disappear.

We've Got Allies

We have got potential allies in the United States now. Not only in the owners of our oil but in the owners of our new iron deposits in Quebec and Labrador. And if we take time out to hammer home the facts of life in Canada to the American owners of \$4 billions worth of branch factories, we can acquire more allies.

A Customs Union will mean lower prices in Canada for the things we buy, and it will mean participation in the American market for things we sell, our natural products as well as our manufactured goods. Eventually our exports will exceed our imports. We will then build up a surplus that will enable us to repay the American investment in Canada.

Above all, a Customs Union will awaken Canadian enterprises to the risking of capital at home and across the line. We have no fears about Canadian ability to compete and survive and prosper. But under almost a century of protectionism it has not had to struggle to survive. It has not had to be vigorous, alert and active. There have been times when it seemed to function just as well when sound asleep.

★

Coarse grain prices again

WHEN the prices of coarse grains rose last month, the Canadian Federation of Agriculture got quite excited and started waving its arms around. That, we can understand. Dominated as it is by eastern farmers, the interests of eastern farmers seemed to be threatened. So there was a suggestion that an inquiry should be launched as to why prices went up.

What had happened was simple. American feeders and brewers had come into the Canadian market for supplies. The discount on Canadian dollars, for example, made Canadian prices attractive. And there were other factors so the prices rose.

This was eminently satisfactory for Western farmers who felt all along that coarse grain prices were too low. But as the rise increased the costs of eastern feeders they were understandably provoked.

The moral to be drawn from all this has been drawn before. You can have producers' boards. You can have consumers' boards. But when you try to set up a board that will market food to the satisfaction of both producers and consumers you will please no one. Our farmers who understand this clearly wanted the Wheat Board

(Continued on page 6)

Farm and Ranch Review Editorials

Free enterprise and price fixing

THERE are elements of real tragedy in the row that led to the resignation of Mr. Fred McGregor as Combines Commissioner. Mr. McGregor was, comparatively, a very rare bird indeed. He believed in free enterprise capitalism and that enterprise should be free, enterprising and competitive. Far too much of our praising of free enterprise comes from service club orators who are devoting their time to avoiding competition and enterprise.

Mr. McGregor had dedicated himself to forcing competitors to compete, to the protection of Canadian consumers against price fixing by cartels, trade associations or patent combines. The awful magnitude of the job never seemed to discourage him, nor dull his belief that competition could be made the life of trade. He was surely the right man for the job. His resignation, and the departure of his chief aides, will seriously handicap the department for a long time to come. And we'd say all this even if we were not heavily on the side of Mr. McGregor in his argument with the Government.

It may be that fighting combines in Canada is a losing game. Certainly it is most difficult to attack them when so many of their conspiracies are effected by word of mouth agreements in head offices in the United States. And in Canada the general trend seems to be toward price fixing by association or group. Indeed the laws of the provinces and municipalities often seem directed to creating the very conditions the Combines Investigation Act was intended to combat.

Let's ask the farmer

THE Western Canada Weed Control conference at Edmonton in November was most valuable. Our news columns in January will carry a full report on all the facts now available on 2,4-D and weed control. In the meantime, however, we have an immediate comment.

In the interest of all concerned the time has arrived for a change of emphasis at these weed conferences. Until now, understandably, the delegates have been mainly technical people and representatives of chemical firms and machinery makers. The problem of chemical weed control, in the beginning, was largely technical. It isn't any more.

The proceedings quickly revealed a

(Continued from page 5)

to function as their marketing agent. The Board has adopted the policy of trying to get the best possible price for the producers. The fact that the Winnipeg futures market went up should not be allowed to becloud the issue. The price would have advanced with the increased American demand regardless of the futures market.

This isn't the first time that eastern and western interests have met head on in the C.F.A. But it does demonstrate again the basic weakness of the argument that eastern and western farmers have a community of mutual interests.

A farmer on the prairies, for example, will probably encounter a dozen different combines if he decides to build himself a new house. There are the lumber yards that use identical price lists. If he tries to buy and install his own plumbing equipment he will encounter endless trouble. So called safety codes will prevent his installing his own wiring — an operation so simple that any child can master it in a few hours. He will encounter trades unions that have ridiculous limits on the amount of work their members can do in an hour. He will discover prices and wages fixed by cartel deals all over the place.

If he insures the house in course of construction he will discover the rates are fixed by agreement. The same applies to the insurance he carries on his truck that hauls the supplies. Free competition in price simply does not apply in the building supply field.

Yet though he is ham-strung and frustrated at every turn, the producer has somehow become the butt of all the criticism of a non-enterprising economy. If, by collective action, our producers seek to safeguard even a segment of their own standard of living from violent fluctuations, they are attacked on all sides.

During the war, for example, our price ceiling policies cost the farmers untold millions in lost income. They were promised that the producers would not suffer for the

striking omission — the lack of adequate representation of the farmers who use the stuff. Statistical information was inadequate, to say the least. In some cases it was confined largely to hearsay — what some farmers said to some Ag-Reps.

To really test the efficacy of 2,4-D and other chemicals, it is essential now to get the farmers interested. That can best be done, of course, by getting the Prairie Wheat Pools to marshall their organizations behind weed control first and to gather factual material later. There may be some resistance to this for the Line Elevator Companies seemed to have an inside track at the conference and the Pools were otherwise engaged. Until the experiences of the farmers themselves are drawn upon for a factual basis for judgments, much of the work on weed control will be ineffectual.

Equally important, obviously, is the need for a great deal of fundamental research — laboratory work by scientists to discover just what 2,4-D does to the root systems of weeds and cereals. That applies with equal force to the weeds that are immune as to weeds that are susceptible to 2,4-D.

To illustrate the difficulty that arises from lack of information and basic research — consider Wild Oats and Mustard. It has been noticed, occasionally, that when Mustard is eliminated Wild Oats increase their infestation. Is that unusual, or is it something to be generally expected? Nobody knows. On Mustard, 2,4-D stimulates plant

wartime sacrifices. To keep that pledge the Government during the past summer bought surplus butter. To some newspapers that was regarded as a crime against humanity.

What it has come down to is that it is right and proper for everybody else to price fix, cartelize and restrain trade to their heart's content, so long as the farmer is subjected to all the stresses and impacts of the competitive price economy.

Mr. McGregor never took that view. It was no secret that he regarded the whole wartime price-fixing programme with unmixed alarm. And as soon as the war ended he tried to get the economy switched onto another track. It was a job of global magnitude. What must have been galling beyond endurance was the fact that the same Government, which encouraged him to proceed vigorously, suppressed his report on the milling industry, a report that was only blasted into public light by Mr. McGregor's resignation.

The whole episode reflects no credit on the Government. The sooner it recognizes that fact the better. We don't concede that forcing our competitive system to compete is a forlorn hope. Cartels which stifle competition will eventually smother the economy. If it is price fixing that is wanted, if it is a nice neat system of stagnating enterprise that is desired, let's leave it to the Socialists who will carry it to its logical conclusion — a single cartel operated by the state! After all, if we are going to have to live under Socialism, we might as well have the real thing, not the synthetic type organized in a back room by people who call themselves Free-Enterprisers, and to whom real freedom of enterprise is anathema.

growth until the weed grows itself to death. Does the chemical have any effect on Wild Oats at all? Does it perhaps stimulate the growth but not to the lethal stage? There is no evidence whatever that it does. But, again, we cannot be sure until the plant laboratories have done a thorough, an exhaustive research job.

We have learned much about chemical herbicides in the last two years. We will learn a lot more if we can get the farmers' organizations interested in one of the West's most pressing problems.

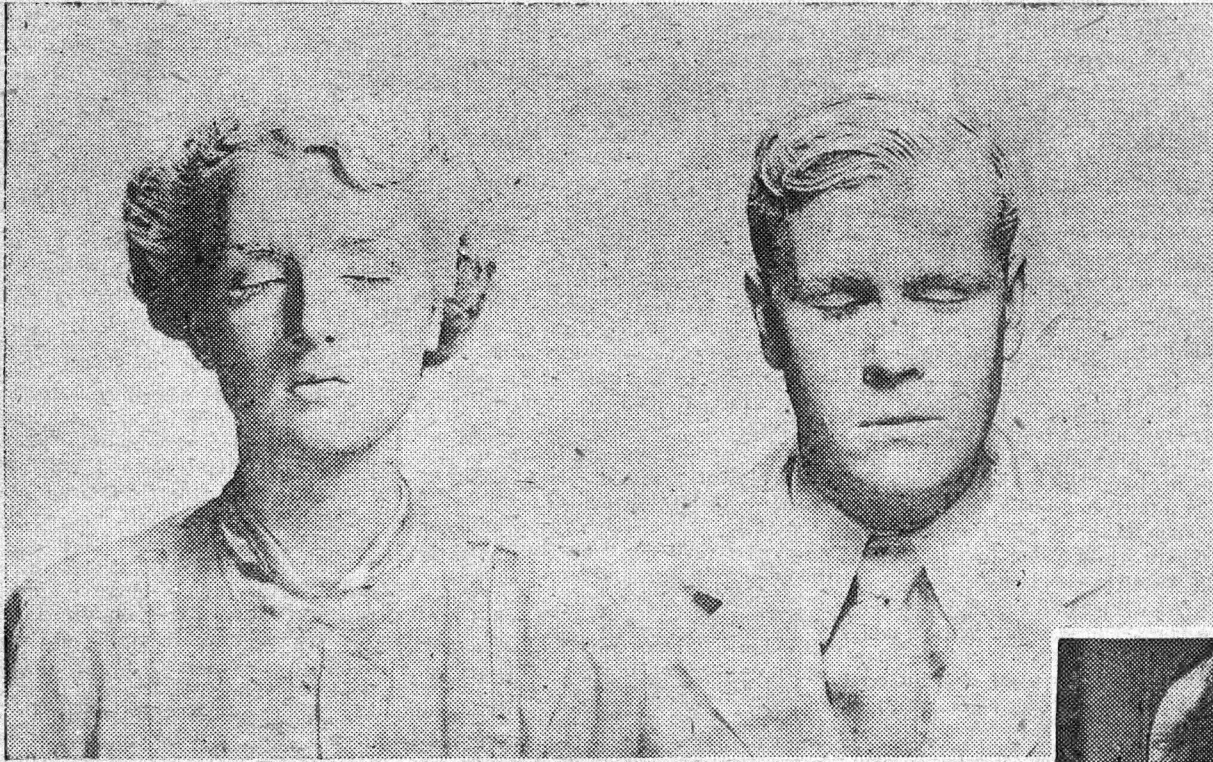
★

Manitoba's Political Kigmies

SPEAKING of American dollars, somebody down in Manitoba ought to collect a couple of million by suing Mr. Al. Capp, the cartoonist creator of Li'l Abner for patent infringement. He has made quite a thing out of his Kigmies, the creatures whose sole function in life is to be on the receiving end of swift kicks. Manitoba had its Kigmy population long before Mr. Capp ever thought of the idea. Only in Manitoba they are called Tories or Coalition Conservatives. Their only function is to act as cushions to ease the task of government for Mr. Campbell and his Liberal party. And judging from the recent election returns, the cushions are wearing very well.

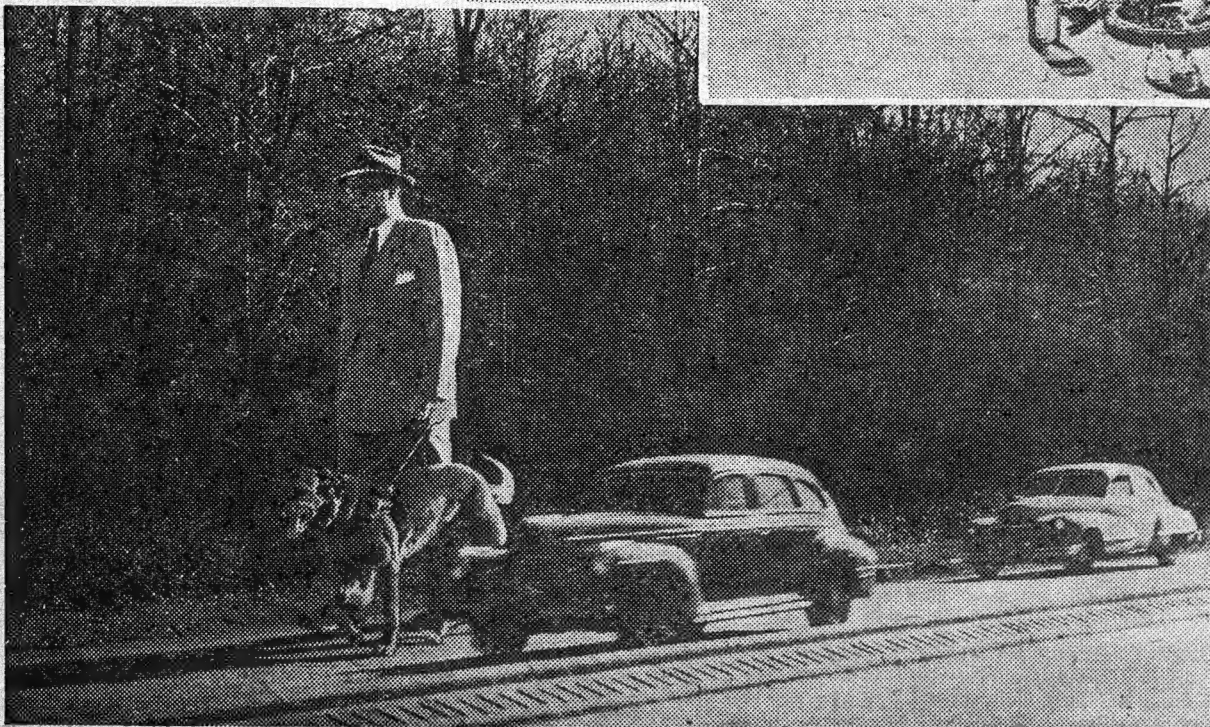
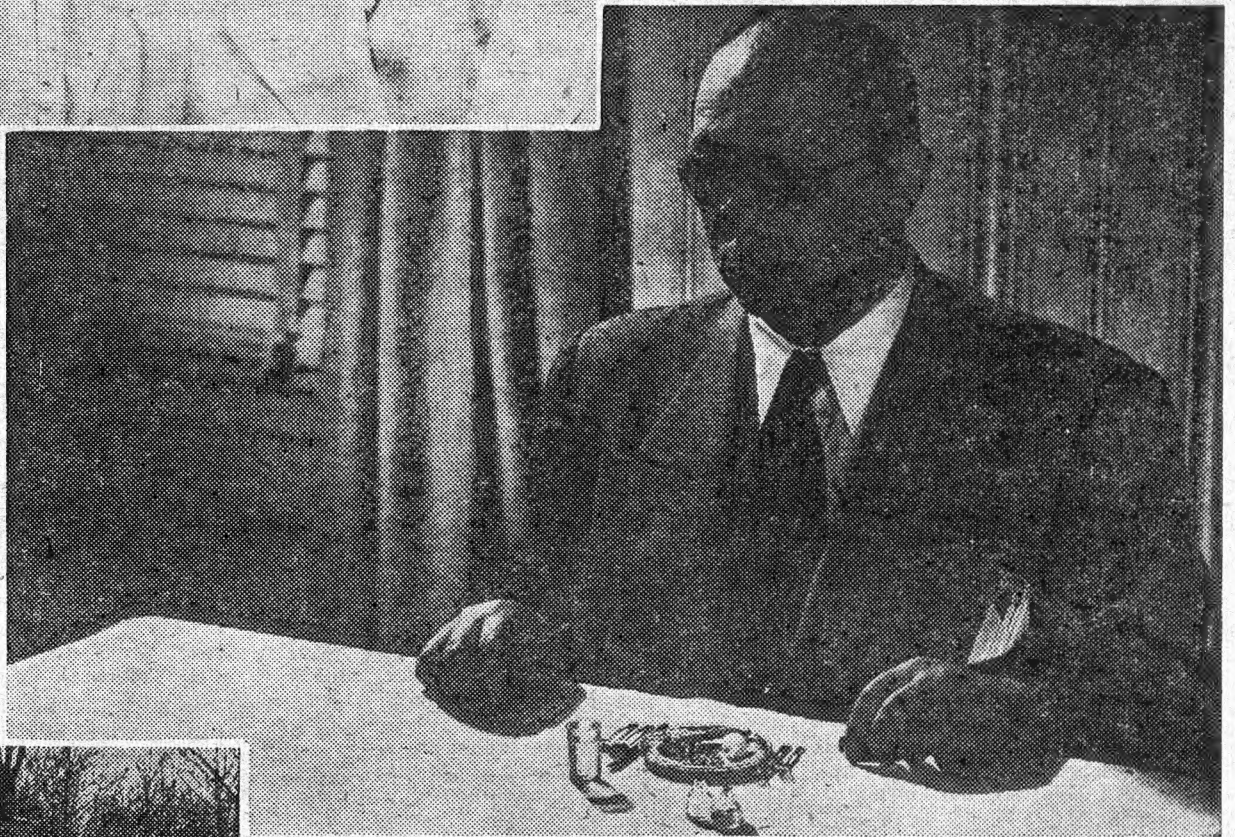
How The World Seems —TO BLIND PEOPLE

These striking pictures were first published in the International Harvester Co. magazine, "The Harvester", to whom we are indebted for permission to reprint them in the Farm and Ranch Review.



Blind people imagine their friends as having identical, mask-like expressions. Since facial characteristics are not apparent to the touch, they cannot "visualize" frowns, smiles or expressive eyes. Neither can they understand why a man's face and shirt seem a different tone — since both are called white. Blind persons who later regained their sight have provided investigators with this unusual information.

A square meal as imagined by a blind man, looks like this. He does not seem to realize how much the average person eats. One blind man, whose sight had been restored, had an attack of nausea when he saw the "mountain of food" that was placed before him.



All cars are bantam-size in the world of the blind. A blind person who regains his sight is astounded at the size of the modern automobile. Most imagine them to be about one-third of their actual size. The size of large articles is difficult for a blind person to imagine, because comparisons are lacking. To those with newborn sight, a ride in a car travelling more than 20 miles an hour is a terrifying experience.

The Gift of the Magi

By O. HENRY

ONE dollar and eighty-seven cents. That was all. And sixty cents of it was in pennies. Pennies saved one and two at a time by bulldozing the grocer and the vegetable man and the butcher until one's cheeks burned with the silent imputation of parsimony that such close dealing implied. Three times Della counted it. One dollar and eighty-seven cents. And the next day would be Christmas.

There was clearly nothing to do but flop down on the shabby little couch and howl. So Della did it. Which instigates the moral reflection that life is made up of sobs, sniffles, and smiles, with sniffles predominating.

While the mistress of the home is gradually subsiding from the first stage to the second, take a look at the home. A furnished flat at \$8 per week. It did not exactly beggar description, but it certainly had that word on the lookout for the mendicancy squad.

In the vestibule below was a letter-box into which no letter would go, and an electric button from which no mortal finger could coax a ring. Also appertaining thereto was a card bearing the name "Mr. James Dillingham Young."

The "Dillingham" had been flung to the breeze during a former period of prosperity when its possessor was being paid \$30 per week. Now, when the income was shrunk to \$20, the letters of "Dillingham" looked blurred, as though they were thinking seriously of contracting to a modest and unassuming D. But whenever Mr. James Dillingham Young came home and reached his flat above he was called "Jim" and greatly hugged by Mrs. James Dillingham Young, already introduced to you as Della. Which is all very good.

Della finished her cry and attended to her cheeks with the powder rag. She stood by the window and looked out dully at a grey cat walking a grey fence in a grey backyard. Tomorrow would be Christmas Day, and she had only \$1.87 with which to buy Jim a present. She had been saving every penny she could for months, with this result. Twenty dollars a week doesn't go far. Expenses had been greater than she had calculated. They always are. Only \$1.87 to buy a present for Jim. Her Jim. Many a happy hour she had spent planning for something nice for him. Something fine and rare and sterling — something just a little bit near to being worthy of the honour of being owned by Jim.

There was a pier-glass between the windows of the room. Perhaps you have seen a pier-glass in an \$8 flat. A very thin and very agile person may, by observing his reflection in a rapid sequence of longitudinal strips, obtain a fairly accurate conception of his looks. Della, being slender, had mastered the art.

Suddenly she whirled from the window and stood before the glass. Her eyes were shining brilliantly, but her face had lost its colour within twenty seconds. Rapidly she pulled down her hair and let it fall to its full length.

Now, there were two possessions of the James Dillingham Youngs in which they both took a mighty pride. One was Jim's gold watch that had been his father's and his grandfather's. The other was Della's hair. Had the Queen of Sheba lived in the flat across the airshaft, Della would have

let her hair hang out the window some day to dry just to depreciate Her Majesty's jewels and gifts. Had King Solomon been the janitor, with all his treasures piled up in the basement, Jim would have pulled out his watch every time he passed, just to see him pluck at his beard from envy.

So now Della's beautiful hair fell about her, rippling and shining like a cascade of brown waters. It reached below her knee and made itself almost a garment for her. And then she did it up again nervously and quickly. Once she faltered for a minute and stood still while a tear or two splashed on the worn red carpet.

On went her old brown jacket; on went her old brown hat. With a whirl of skirts and with the brilliant sparkle still in her eyes, she fluttered out the door and down the stairs to the street.

Where she stopped the sign read: "Mme. Sofronie. Hair goods of all kinds." One flight up Della ran, and collected herself, panting. Madame, large, too white, chilly, hardly looked the "Sofronie."

"Will you buy my hair?" asked Della.

"I buy hair," said Madame. "Take yer hat off and let's have a sight at the looks of it."

Down rippled the brown cascade. "Twenty dollars," said Madame, lifting the mass with a practised hand.

"Give it to me quick," said Della.

Oh, and the next two hours tripped by on rosy wings. Forget the hashed metaphor. She was ransacking the stores for Jim's present.

She found it at last. It surely had been made for Jim and no one else. There was no other like it in any of the stores, and and she had turned all of them inside out. It was a platinum fob chain simple and chaste in design, properly proclaiming its value by substance alone and not by meretricious ornamentation — as all good things should do. It was even worthy of The Watch. As soon as she saw it she knew that it must be Jim's. It was like him. Quietness and value — the description applied to both. Twenty-one dollars they took from her for it, and she hurried home with the 87 cents. With that chain on his watch Jim might be properly anxious about the time in any company. Grand as the watch was, he sometimes looked at it on the sly on account of the old leather strap that he used in place of a chain.

When Della reached home her intoxication gave way a little to prudence and reason. She got out her curling irons and lighted the gas and went to work repairing the ravages made by generosity added to love. Which is always a tremendous task, dear friends—a mammoth task.

Within forty minutes her head was covered with tiny, close-lying curls that made her look wonderfully like a truant schoolboy. She looked at her

reflection in the mirror long, carefully, and critically.

"If Jim doesn't kill me," she said to herself, "before he takes a second look at me, he'll say I look like a Coney Island chorus girl. But what could I do—oh! what could I do with a dollar and eighty-seven cents?"

At 7 o'clock the coffee was made and the frying-pan was on the back of the stove hot and ready to cook the chops.

Jim was never late. Della doubled the fob chain in her hand and sat on the corner of the table near the door that he always entered. Then she heard his step on the stair away down on the first flight, and she turned white for just a moment. She had a habit of saying little silent prayers about the simplest everyday things, and now she whispered, "Please, God, make him think I am still pretty."

The door opened and Jim stepped in and closed it. He looked thin and very serious. Poor fellow, he was only twenty-two — and to be burdened with a family! He needed a new overcoat and he was without gloves.

Jim stopped inside the door, as immovable as a setter at the scent of quail. His eyes were fixed upon Della, and there was an expression in them that she could not read, and it terrified her. It was not anger, nor surprise, nor disapproval, nor horror, nor any of the sentiments that she had been prepared for. He simply stared at her fixedly with that peculiar expression on his face.

Della wriggled off the table and went for him.

"Jim, darling," she cried, "don't look at me that way. I had my hair cut off and sold it because I couldn't have lived through Christmas without giving you a present. It'll grow out again — you won't mind, will you? I just had to do it. My hair grows awfully fast. Say 'Merry Christmas!' Jim, and let's be happy. You don't know what a nice — what a beautiful, nice gift I've got for you."

"You've cut off your hair?" asked Jim, laboriously, as if he had not arrived at that patent fact yet even after the hardest mental labour.

"Cut it off and sold it," said Della.

"Don't you like me just as well, anyhow? I'm me without my hair, ain't I?"

Jim looked about the room curiously.

"You say your hair is gone?" he said, with an air almost of idiocy.

"You needn't look for it," said Della. "It's sold, I tell you — sold and gone, too. It's Christmas Eve, boy. Be good to me, for it went for you. Maybe the hairs of my head were numbered," she went on with a sudden serious sweetness, "but nobody could ever count my love for you. Shall I put the chops on, Jim?"

Out of his trance Jim seemed quickly to wake. He enfolded his Della. For ten seconds let us regard with discreet scrutiny some inconsequential object in the other direction. Eight dollars a week or a million a year — what is the difference? A mathematician or a wit would give you the wrong answer. The magi brought valuable gifts, but that was not among them. This dark assertion will be illuminated later on.

Jim drew a package from his overcoat pocket and threw it upon the table.

"Don't make any mistake, Dell," he said, "about me. I don't think there's anything in the way of a haircut or a shave or a shampoo that could make me like my girl any less. But if you'll unwrap that package you may see why you had me going a while at first."

White fingers and nimble tore at the string and paper. And then an ecstatic scream of joy; and then, alas! a quick feminine change to hysterical tears and wails, necessitating the immediate employment of all the comforting powers of the lord of the flat.

For there lay The Combs — the set of combs, side and back, that Della had worshipped for long in a Broadway window. Beautiful combs, pure tortoise shell, with jewelled rims — just the shade to wear in the beautiful vanished hair. They were expensive combs, she knew, and her heart had simply craved and yearned over them without the least hope of possession. And now, they were hers, but the tresses that should have adorned the coveted adornments were gone.

But she hugged them to her bosom, and at length she was able to look up with dim eyes and a smile and say: "My hair grows so fast, Jim!"

And then Della leaped up like a little singed cat and cried, "Oh, oh!"

Jim had not yet seen his beautiful present. She held it out to him eagerly upon her open palm. The dull precious metal seemed to flash with a reflection of her bright and ardent spirit.

"Isn't it a dandy, Jim? I hunted all over town to find it. You'll have to look at the time a hundred times a day now. Give me your watch. I want to see how it looks on it."

Instead of obeying, Jim tumbled down on the couch and put his hands under the back of his head and smiled.

"Dell," said he, "let's put our Christmas presents away and keep 'em a while. They're too nice to use just at present. I sold the watch to get the money to buy your combs. And now suppose you put the chops on."

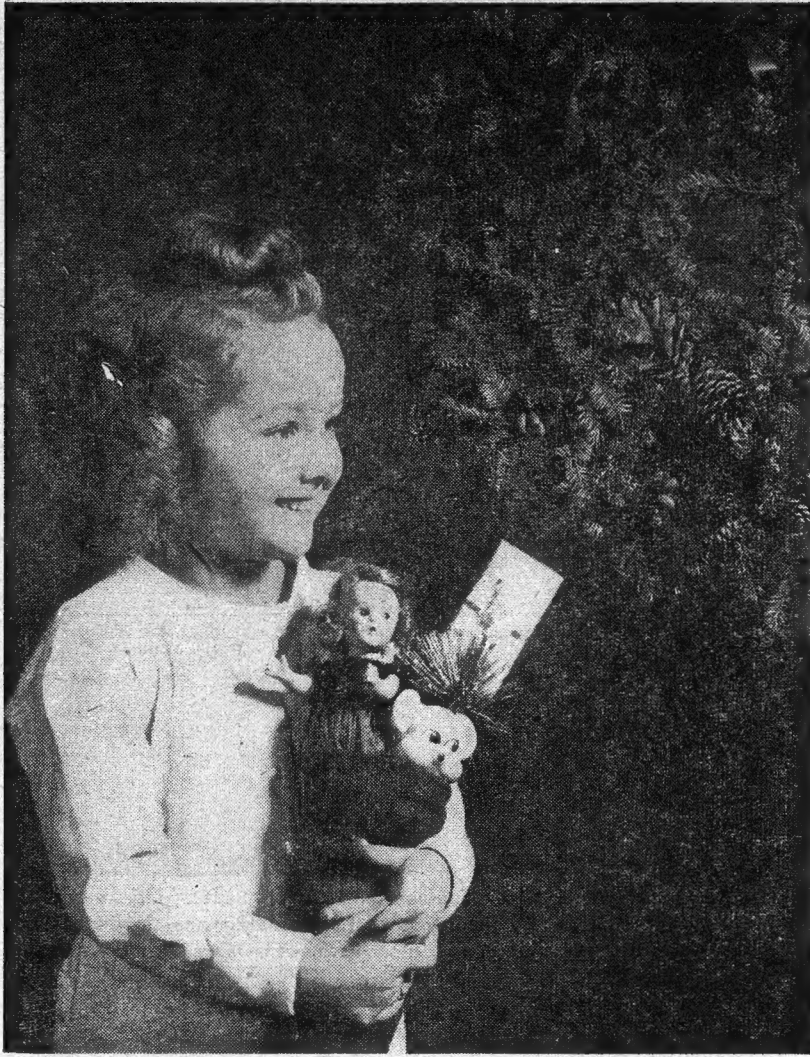
The magi, as you know, were wise men — wonderfully wise men — who brought gifts to the Babe in the manger. They invented the art of giving Christmas presents. Being wise, their gifts were no doubt wise ones, possibly bearing the privilege of exchange in case of duplication. And here I have lamely related to you the uneventful chronicle of two foolish children in a flat who most unwisely sacrificed for each other the greatest treasures of their house. But in a last word to the wise of these days let it be said that of all who give gifts these two were the wisest. Of all who give and receive gifts, such as they are wisest. Everywhere they are wisest. They are the magi.

Prize Picture



This study in color and attention won \$3 for Esther Yashuk, Meanook, Alta.

He Came!!



Alta. Wheat Pool breaks record

THE Alberta Wheat Pool celebrated its 25th Anniversary in the 1948-49 crop year. Members and patrons made the year a memorable one by delivering to Pool Elevators some 53,575,595 bushels of grain, an all-time record.

Net earnings of Pool Elevators during 1948-49 totalled \$1,622,476.31. This was an increase of \$216,000 over the net earnings the previous year. It also created a new record for the organization.

The above information was given in the reports presented by the directors and management of the Wheat Pool to the delegates at their annual convention held in Calgary during the latter part of November.

The Alberta Wheat Pool owns 486 country elevators with a capacity of 30,701,650 bushels, and

two terminals with a capacity of 7,150,000 bushels. Last year the Vancouver terminal handled 26,555,889 bushels while 17,530,000 bushels was shipped East.

During the 1948-49 business year the Wheat Pool redeemed reserves from original members to the value of \$380,100.15. These reserves were purchased at 100c on the dollar from the estates of deceased members, from members 65 years of age and over who have no further interest in farm lands, and from members 75 years of age and over whether they own farm lands or not.

In the same year patronage dividends were paid in cash to a total of \$164,508.25, and in reserves to a total of \$92,226.78.

About half a million dollars was spent in 1948-49 in expanding Pool Elevator facilities.

Pests and diseases take huge toll

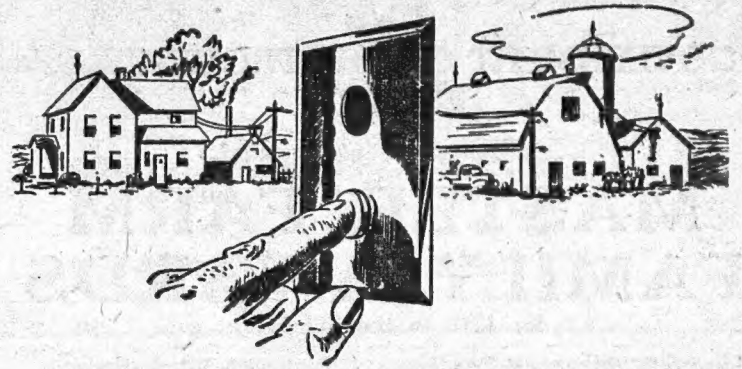
AT the recent meeting of the International Congress of Crop Production in London, England, it was estimated that 50 per cent of the crops grown, harvested and stored was ravaged by pests and plant diseases.

According to authorities of the Food and Agricultural Organization of U.N.O., annual losses of world grain crops alone to insects and diseases amount to 65,000,000 tons. Yearly losses from potato blight were given as 10 per cent of the entire crop. Even after the

crops are harvested an additional loss of eight per cent is suffered, reports C-I-L Agricultural News.

During and since World War II, knowledge concerning the control of pests and diseases has been gradually expanding. Research has brought forward many new and highly effective insecticides and fungicides. But these are not the final answer, state international agricultural experts. Their solution to the problem as a whole would be to convince farmers that gains equal to those derived from fertilizer applications can also be obtained from use of modern crop protection methods.

ELECTRIFY your Farm with a FARM IMPROVEMENT LOAN



What you can do with a FARM IMPROVEMENT LOAN

You can buy implements and equipment; buy, install, extend or improve a farm electric system; build, repair, extend or improve farm homes and other buildings; construct fences, drainage systems, shelter belts and make other improvements to farm property. For full particulars ask at any branch for our booklet, "FARM IMPROVEMENT LOANS".



Electricity can take the drudgery out of many a farm chore—save you time and money—help make life pleasanter and easier for everyone in the family.

Plan now to electrify your farm with a Farm Improvement Loan. At any branch of The Royal Bank of Canada, loans are available to farmers for the purchase, installation or improvement of farm electric systems. These loans can now be made on security of the equipment itself and repayment arranged by convenient instalments. If electrical equipment is still hard to get in your district, you can make a start by doing your preliminary wiring. Wire, switch boxes, transformers, etc. are available in many districts. By starting now you will be ready to put electricity to work on your farm as equipment comes on the market. Talk your plans over with the Manager of our nearest branch.

THE ROYAL BANK OF CANADA

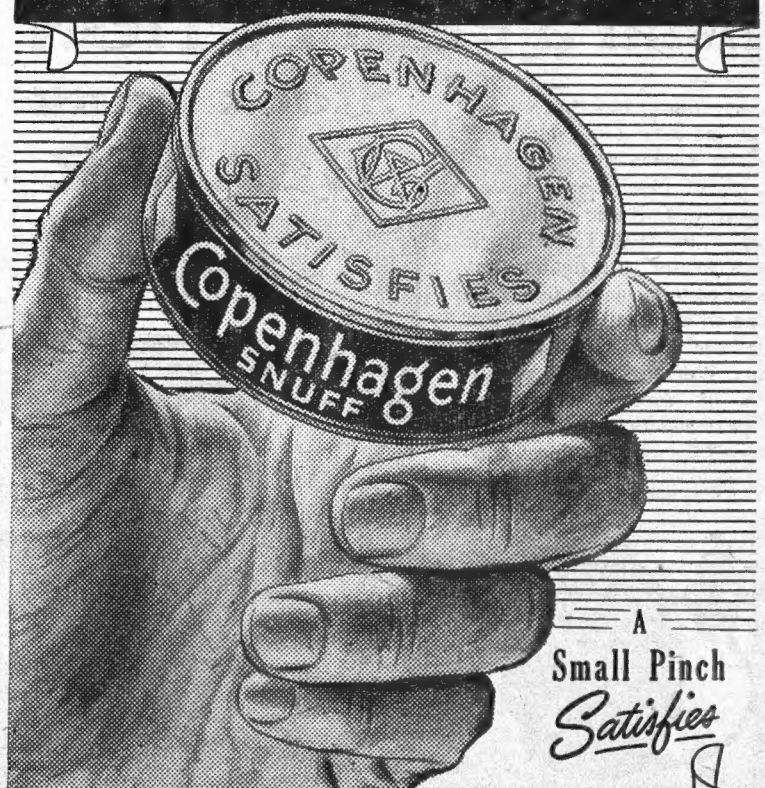
Safety Glass for Automobiles, Any Make of Car
THE BENNETT GLASS CO. LTD.

M 1778

228 - 7th Avenue East,

CALGARY

COPENHAGEN



A
Small Pinch
Satisfies

"The World's Best Chew"
IT'S DATED TO GUARANTEE FRESHNESS



The
GOVERNMENT OF THE PROVINCE OF
ALBERTA

announces the first annual

MASTER FARM FAMILY AWARDS

for 1949 to the following:

Joseph G. Dusseault Family
VIMY, Alberta

Lalovee R. Jensen Family
MAGRATH, Alberta

Joseph L. Paquette Family
DONNELLY, Alberta

Wilfred J. Edgar Family
INNISFAIL, Alberta

Jacob F. Melenka Family
WARWICK, Alberta

The Master Farm Family Award is recognized by an award of \$1,000.00, an engraved plaque and a name plate for the farm entrance.

The purpose of the Master Farm Family program is to find and honor those who have achieved notable progress in farming, home-making and citizenship and who, by their example, are encouraging interest in farming as a way of life. The Department of Agriculture is indeed proud and gratified with the high standard of attainment among the farm citizens of Alberta as revealed by the Master Farm Family program.

DEPARTMENT OF AGRICULTURE

Government of the Province of Alberta

HON. DAVID URE, Minister

O. S. LONGMAN, Deputy Minister

Glass for Automobiles, All Models, Prompt Shipment
THE BENNETT GLASS CO. LTD.

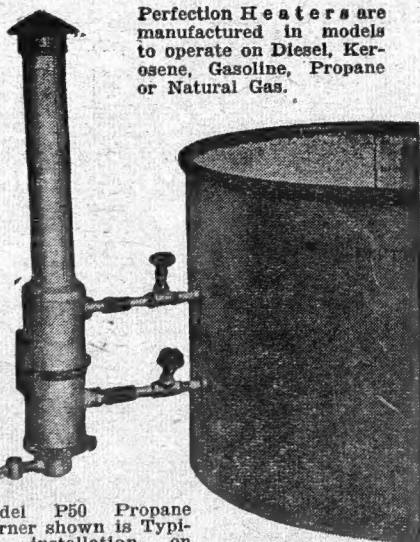
M 1778

228 - 7th Avenue East,

CALGARY

for Healthy STOCK this WINTER Instal a PERFECTION Stock Tank HEATER

Keep milk production up . . . Put pounds on your beef cattle, assure all your livestock of plenty of drinking water this winter by installing a PERFECTION stock tank heater, the heater that is so easy to instal and operates so economically that you can not afford to be without one. Working on the principal of forced circulation, your stock tank will remain free of ice on the coldest winter day.



Perfection Heaters are manufactured in models to operate on Diesel, Kerosene, Gasoline, Propane or Natural Gas.

Model P50 Propane Burner shown is Typical installation on Stock Tank.

See your nearest Dealer or write or call

PERFECTION MACHINE WORKS LTD.

CALGARY

Dept. F.R.

ALBERTA

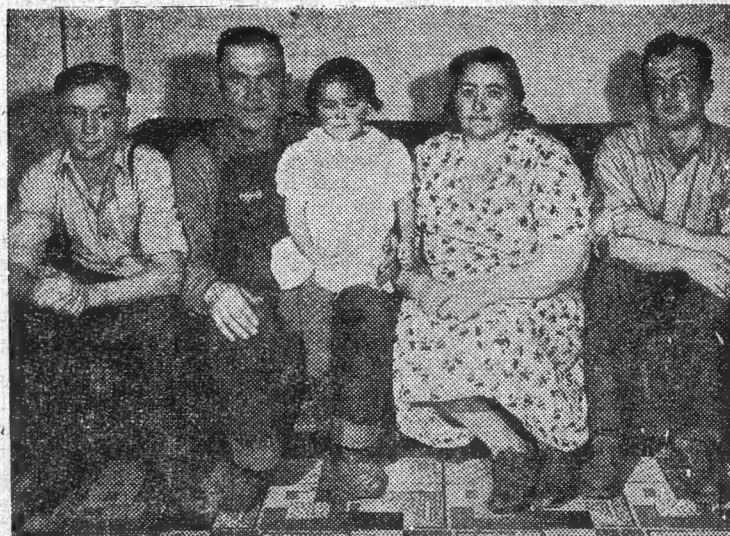
Alberta's master farmers and their families



Master Farm Family J. G. Dusseault of Vimy. Seated, left to right—Mrs. Dusseault; Paulette, 3; Mr. Dusseault. Standing are Germaine and John. Other son, Jacques, stays at home. Frances is married and Armanda is training as a nurse.



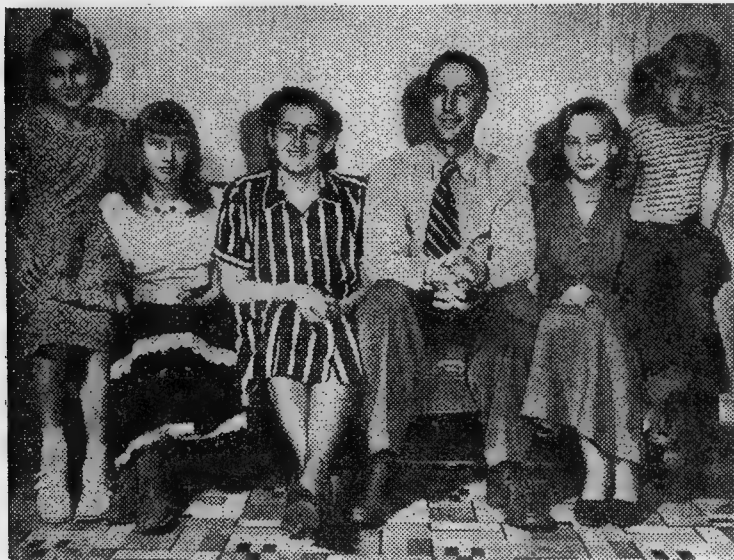
Master Farm Family J. L. Paquette of Donnelly, Joe listens while his wife sings, accompanied by their adopted daughter, Rosanna.



The Melenka family from left to right are: Eugene, Jacob F. Melenka, Marian, Mrs. Melenka and William.



The Edgar family, from left to right: William, Mrs. Edgar, Wilfred J. Edgar and George.



Here is the Jensen Master Farm Family of Magrath. They are from left to right: Lasca, Sylvia, Mrs. Jensen, Lalovee R. Jensen, Joan and Christian.

Water erosion can be stopped on strip cultivated farms

CONSIDERABLE attention has been given to the prevention of soil losses by wind but very little emphasis has been given to the importance of stopping soil losses by runoff water. In many cases the small annual losses remain unnoticed or ignored until the soil on the steeper slopes of the fields appears lighter in color. This indicates that much of the darker top soil has been washed off leaving the subsoil exposed. The more valuable top soil is deposited and accumulated on the lower areas or is washed down the drainage ways.

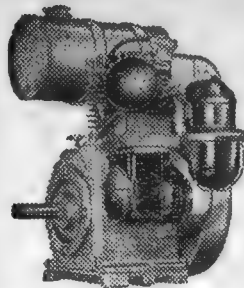
In many areas where strip farming is being used as a measure to control soil drifting, the strips are laid out at right angles to the prevailing wind. This method, when correctly used, has been very beneficial in preventing the loss of soil by wind. With the problem of water erosion becoming more serious, some thought should be given to laying out the strips in such a manner as to control both wind and water erosion.

If water erosion is to be controlled, not only the direction of

the prevailing winds are to be considered, but the topography of the land as well. The strips are laid out across the slopes or along the points of equal elevation throughout the field. These points when joined together form contour lines which become the outline of the fields. The steeper slopes of the field form the narrowest parts of the strip, and the more gentle slopes form the wider parts. The strips will no longer follow straight lines and will vary in width in relation to varying slopes which exist throughout the field.

Usually exact contour lines are not followed if they curve too abruptly but the strips conform to the contours as nearly as is practical. Where slopes are uniform parallel strips can be used. Strips that are comparatively straight should not be faced into the prevailing winds or more soil may be lost from wind erosion than is saved from water erosion.

Considerable work on contour farming is being carried out by operators of the Substation at Pincher Creek and Nobleford.



NEED ENGINES?

WE HAVE THEM!

WISCONSIN Air-Cooled ENGINES

ALL SIZES — 2 to 30 hp., Single & 4-Cyl. Models

Alberta Distributors:

BRUCE ROBINSON ELECTRIC LTD.

CALGARY — EDMONTON

Manitoba and Saskatchewan Distributors:

MUMFORD MEDLAND LTD.

WINNIPEG — SASKATOON

your WINTER HOLIDAY *by train*

With two completely modern trains daily across Canada in each direction, your best travel plan is Canadian National. Travelling east or west, you can stop-over for sight-seeing or visiting wherever you wish, at no extra cost.

**CANADIAN
NATIONAL
RAILWAYS**

**MORE TRAVEL COMFORT
BY TRAIN**

Enjoy air-conditioned travel -- room to move about -- comfort regardless of weather -- restful sleep and delicious meals. Coaches feature individual reclining seats of foam rubber -- new wide-vision windows. For business or pleasure, travel Canadian National!

WETMORE The HAMMERMILL with KNIVES

ADVANCED, EXCLUSIVE FEATURES MAKE
WETMORE KNIFE-TYPE HAMMERMILL THE
OUTSTANDING LEADER



Wetmore Knife-Type Hammermill has the patented single-plate Rotor... an exclusive Wetmore feature — ONLY ONE MOVING PART... ONLY TWO BEARINGS... efficient — simple — and trouble free.

Patented Knife-Type Screen

A proven Wetmore Innovation, replacing regular-type screen for uniform control of hay and roughage textures.

STURDY - EFFICIENT LOW IN COST

All steel heavy construction means long life. The Wetmore grinds grain to any degree of fineness... grinds all feeds, grain, roughage, hay. Mass production and our direct-from-factory-to-dealer distribution plan keeps prices low.

COME IN AND LET US SHOW YOU THE 35 SUPERIOR AND EXCLUSIVE FEATURES OF THE WETMORE KNIFE-TYPE HAMMERMILL

WATERLOO MACHINERY (Alberta) LTD.

DISTRIBUTORS

10249 - 108th Street
EDMONTON, ALTA.
22206

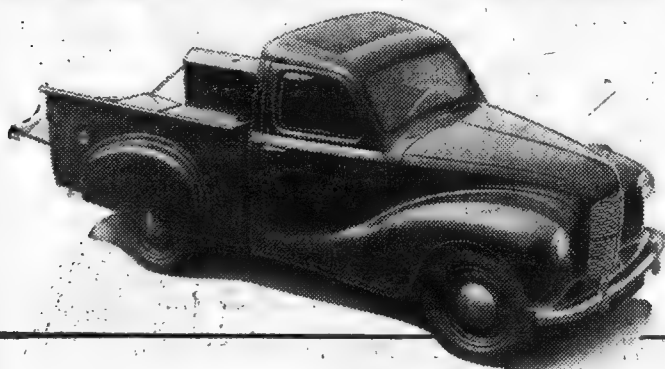
629 - 10th Ave., West
CALGARY, ALTA.
M9927

TELEPHONE

M9927

KEEP DELIVERY COSTS WITH THE AMAZINGLY ECONOMICAL AUSTIN A40 PICKUP

DOWN



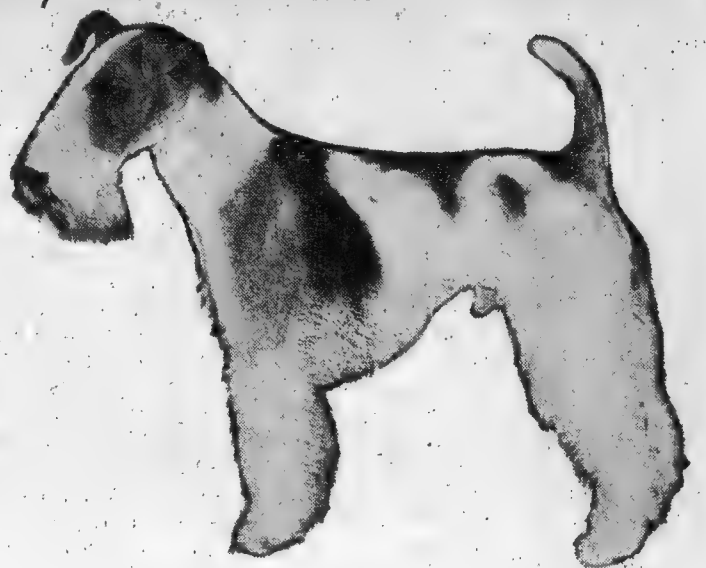
You'll be amazed at the savings that are yours with the new Austin A40 ½-ton Pickup. Besides much lower original cost, thanks to recent big price reductions, you can save almost half on gasoline — up to 40 miles per gallon. For faster, easier, more economical light hauling of all kinds, investigate the rugged, thoroughly dependable Austin Pickup.

For merchants and others who prefer a closed truck, the Austin ½-ton Panel Delivery will give added prestige. It's economical, hard working, and built for years of satisfactory service. Also available is the versatile, low-cost Austin A40 Countryman, a surprisingly thrifty, completely modern station wagon accommodating six passengers.

You can get immediate delivery on any of these three models. See your Austin Dealer today!

AUSTIN A40 SERVICE AND REPLACEMENT PARTS ARE READILY AVAILABLE THROUGHOUT CANADA AND UNITED STATES

Royally bred Wire Terrier



Champion Malabar's Gunner, owned by Jack Brooks of Calgary, is the product of skillful breeding. His dam, Malabar's Enchantress, was one of the best Wire Terrier females ever raised in Canada. When she was mated to the American champion, Hetherington Gallant Gunner, this was one of a superb litter.

Dog breeding is educational and profitable for farm boys

(Contributed)

DURING a lull in a fall livestock sale, a group of farmers fell to discussing farm life in general and livestock in particular. "Know why more livestock isn't kept on our farms?" one of them asked. "I'll tell you. Because for generations farm boys have grown up hating livestock. Every time there was a little spare time, when they could play ball, or skate, or play in the shade—there were chores to be done. Cows had to be milked night and morning. Pigs had to be slopped. Manure had to be shovelled. By the time you were 15 you not only hated animals, you hated the whole business of farming!"

The others nodded their heads in agreement.

This chore business has been counteracted to some extent by the boys' and girls' calf club. By providing youngsters with an animal of their own, some of the sting is taken out of chores. But if the rising generation is to be re-converted to a love of livestock something more is required. So what about dogs?

The farm is the ideal place for raising dogs. There is room for dogs to run. Farm children, like their city cousins, have a natural kinship for dogs. Then why aren't more farm boys and girls raising dogs for pleasure and for profit? There is money in dogs, the right kind. But more than that, young farm boys who get interested in raising dogs can learn things about breeding, feeding and raising animals that will be of immense value to them in a practical way later on in life.

To raise dogs successfully they must acquire a good working knowledge of scientific breeding. In the process they will develop an eye for dogs which in later years can become an eye for beef cattle or swine

or sheep. They will see what a difference a balanced diet can make in growing puppies, and apply that knowledge to all kinds of stock.

It costs no more to raise good dogs than it does poor ones. The same scientific breeding principles that must be followed in dog breeding are applicable to all other livestock production.

The foundation on which modern biologists, plant breeders and animal breeders have built was laid by the Abbe Mendel. His painstaking study of primroses and four-o'clocks demonstrated how hereditary works. A white flower crossed with a red flower produces pink flowers. When the pinks are mated they produce in the ratio of one red, one white and two pinks. Mate the whites or reds and they produce nothing but pure colors. But mate the pinks and they go on producing one red, one white and two pinks.

This led to the discovery that the characteristics we inherit depend on whether our parents were dominant or recessive in these characteristics. Scientific animal breeding is the search for mates who have dominance in desirable characteristics. Every few years, close breeding turns one superb animal who can transmit his great qualities to his offspring and curiously enough his full brothers may lack this ability.

The great improvement that was made in Hereford cattle sprang from one great bull — Domino. Domino sons bred to Domino daughters and granddaughters produced superb animals and the end of the process is not even in sight.

Or, in the United States, the King Ranch developed the outstanding breed of Santa Gertrudis cattle from one bull — Old Monkey. Sons of Old Monkey bred to his daughters and

granddaughters made that strain what it is today.

That is true of dogs, as will be seen by an examination of the pedigree of any champion. There is an important difference — a dog breeder can watch his breeding program develop quickly, but a similar program with cattle can take years. As an illustration of how careful breeding, plus even more careful selection of type, can produce champion calibre, let's take a look at the pedigree of the champion Wire Terrier owned by Jack Brooks of Calgary.

Selective Breeding

"Malabar's Gunner" was sired by Ch. Hetherington Gallant Gunner. He in turn was by "Ch. Fox Hunter of Wild Oaks." The dam of "Hetherington Gallant Gunner" was "Ch. Hetherington Model Rythm," one of the finest Wire bitches in the U.S. The sire of Fox Hunter was Gallant Fox of Wildoaks, one of the greatest Wires that ever lived.

All this sounds desperately complicated. It isn't, but it is something that beginners have to learn if they are to have any success.

Good Profits

The commercial side of breeding dogs can be quite lucrative, providing a young breeder exercises extreme care in the beginning in the choice of his female. There is a market in the West for good hunting dogs that are gun trained. Hunting dogs such as Labradors have big litters, which makes them popular with professional breeders. A good hunting dog, well trained can bring its breeder anything from \$75 to \$150.

Working dogs and terriers are other good types. But any prospective breeders should be warned against the pitfalls of such dogs as Boxers, Danes, etc., on whom major ear operations must be performed by skilled veterinarians before they are marketable.

A good terrier is just about a perfect farm dog. They are all superb mousers and rat catchers. They are afraid of nothing on earth and are so intelligent that they can be taught almost anything. An Airedale, for example, can be trained as a hunting dog and the Wire Fox Terrier can be trained to help herd cattle. So, in fact, can the Irish, the Welsh and other Terriers, though the training takes patience.

One thing is certain — if a young fellow on a farm breeds and raises a superb dog of any kind, he doesn't need to feel remote from the world. Once he advertises what he has got, other breeders will start shipping their females to him.

His path, however, will be beset by many pitfalls. Some can be avoided. One good axiom is — Don't believe anybody; find out for yourself; that applies particularly at the beginning. Before buying a foundation female, get a copy of the breed standard and study it backwards and forwards. Every

thoroughbred dog has a standard. Most of them can be obtained through the Canadian Kennel Club or through such magazines as Dog World.

Once a good female is obtained great care should be taken in choosing a mate. Most people who raise occasional litters of pups regard young females as a nuisance. Not so the top breeders. They keep the best female in the litter and then line breed her back to a closely related dog who is strong in the good qualities she may lack. There is an old English dog breeding saying on this point that goes: Choose the best stud dog you can find, and then breed to his grandfather.

That axiom underlines this fact — many fine dogs do not have the ability to pass their good points on to their offspring. They lack what the fanciers call prepotency.

But there is a good body of opinion that holds that many factors attributed to hereditary can be more correctly be credited to diet. They point out that a thin-boned female may produce stronger boned pups if she is given extra feedings of calcium and cod-liver oil in her diet.

The important point about dogs is that many of the physical characteristics of the good ones are similar to those required in farm livestock. The farm boy who can put good bone in his dogs will some day know how to raise sound bulls. The boy who learns for himself the difference between well-sprung ribs and flat sides in dogs won't be very badly fooled in later life by any livestock.

But outranking everything else is this: The boy who gets interested in raising dogs, or other pets, will be infected by a love of animals, and interest in animals, that will never leave him. And what is more, even the chores will become less onerous, for his curiosity and interest will have been aroused. When he looks at a farm animal, he will be SEEING it, judging it, weighing it, wondering about it and where some of its characteristics come from.



EBB OF WETMORE was second in the All Age Stake at the Brooks Trials. He is shown above with owner and handler, C. Frank Barrigan of Edmonton.

MEN WANTED TO LEARN DIESEL!

An Unusual Opportunity to Start a Profitable Career

No advance technical education or experience needed. Our earn-while-you-learn method does not eliminate anyone who is mechanically inclined and ambitious. Graduates say the theory is easily mastered by our specially prepared, illustrated engineering assignments.

Our free employment service is READY TO ASSIST YOU to find a paying job with chances of a real future. Get going today for better pay!

We also teach GAS and ELECTRIC WELDING
as well as Electrical refrigeration and Air conditioning.

CHICAGO VOCATIONAL TRAINING CORPORATION LTD.

504 Dominion Square Bldg.,

MONTREAL

714 Time Bldg.,

WINNIPEG

12520 - 102nd Ave.,

EDMONTON

935 Weston Rd.,

TORONTO 9

422 Richards St.,

VANCOUVER

Transportation is paid to one of America's largest practical shops.

MAIL
THIS
COUPON

Please forward complete information and a FREE LESSON.

NAME

ADDRESS

AGE OCCUPATION

FRR-49

YOU GET QUICK RESULTS FROM FARM AND RANCH ADS.

You're
Sure to
Please
When
You
Give a

Coleman

*Pleasant to give
Delightful to receive*

There's a happy feeling in giving something that is different and out of the ordinary. It's a real thrill to receive a Gift that is so impressive and yet so practical.

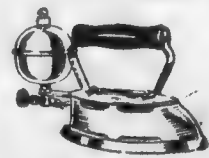
Yours is the choice—a Gift of better lighting or easier ironing for some one's home. Or a Gift of more hours of fun for some one's picnic or camping trip.

Coleman appliances are Santa's favourites. Pocket Stoves, Lamps, Irons, Lanterns—be sure to see them on display at your Hardware, Departmental or General Store.



THE COLEMAN LAMP and STOVE CO. LTD.

DEPT. 126-FR, 9 DAVIES AVE.
TORONTO 8, CANADA



C-9126

FOR A REFRESHING VACATION, GO *Canadian Pacific* TO THE **PACIFIC COAST**

"CANADA'S EVERGREEN PLAYGROUND"

This fall or winter, enjoy a colorful vacation on Canada's Pacific Coast. Travel Canadian Pacific via world-famous Banff... see the magnificent Rockies in fall and winter splendor... Vancouver and Victoria in Canada's Evergreen Playground. **SAVE DOLLARS**—attractive three month Coach fares... Tourist and Standard slightly higher.

Fine meals, latest post-war accommodation, air-conditioned comfort and unsurpassed service... it's a real vacation treat to travel Canadian Pacific! Convenient connections at Vancouver for sunny California.

Your local agent will gladly help you plan your trip.

Canadian Pacific
WORLD'S GREATEST TRAVEL SYSTEM

NEW MIRRORS Made to Order, Any Size or Shape
THE BENNETT GLASS CO. LTD.
M. 1778 228 - 7th Avenue East, CALGARY

It can be fun to follow the trail of a Rabbit

By KERRY WOOD

A RABBIT'S track is an invitation to adventure. On Christmas morning, or any other bright and sunny day when your work allows you to take the time, follow a rabbit's track across the sparkling snow and read its adventures of the night.

Here the bunny paused to feed, nibbling on young twiglets of willow and chewing off a bark fragment from the green trunk itself. Pause with him, and cut yourself a willow cane or thumbstick to steady your footsteps this morning. And you may note that there is a grotesquely shaped trunk in the willow stand, deeply pocked with diamond depressions.

This is carving wood if you have a deft knife, and there are many long evenings beside a winter's fire ahead of you when carving makes a pleasant pastime. So take you a piece, the part that is suggestive of a crouching squirrel hunched against a tree stump. Will it make a good candlestick for the mantle?

Now the rabbit marks go on, skirting around the willows and

following a fence-line. Here some dried weed-heads poke above the snow; on the white surface we see the red-brown seeds of the sow-thistle scattered, with tiny etchings of tracks among the seeds and chaff to tell us that Redpoll birds have been busy here. From the Arctic coasts of Alaska come the Redpolls every autumn, wintering on our western fields and busily helping farmers keep the weed-seeds thinned out on fields and fence-rows. Flocks of thirty and forty of the sparrow-like birds with the tiny crown of ruby feathers will bustle through a stand of weeds, the rosy-breasted males uttering a plaintive and canary-like whistle at frequent intervals.

Our rabbit only hesitated here, sniffing at the sow thistle indifferently but licking out a pink tongue to gather in a vagrant blade of couch grass standing withered and tall beside a fence post. Then on again, across the field itself. There is a slight crust on the snow, enough to bear the three pound weight of the Varying Hare or bush rabbit that we are following, but not tough enough to support our own trudging feet. We break through the crust at every step, crunching through the brittle stubble that marks where the wheat-stalks grew in countless thousands before the shutting blades of harvest-time gleaned through this field.

Others have been interested in that harvest, and recently. We see the numerous tracks of mice; mostly the twin marks of the Drummond's Vole or short-tailed meadow-mouse, but here and there a daintier spoor of the White-footed Mouse or the heavier track of a Red-backed Vole that has come from the nearby forest to forage for wheat kernels. The mice can do no damage now, but during the growing and ripening time these numerous little voles take a great deal more than their share of the farmers' crops. So we welcome the sight of a weasel's trail, the loping marks of the little killer plainly printed on the clean page of snow. Of all the enemies of mice the weasel is the deadliest, therefore it should be considered one of the finest friends farmers can know. See how this one has turned, following the freshest vole scent. Look: here is a hole where the weasel tunnelled down, with a tiny fleck of blood at the entrance to provide us with a clue to the mouse-murder it committed in the shadowed underground below the stubble-roots. And there goes the weasel trail away from the hole, intent on another hunt for another mouse.

But our rabbit trail leads on. Across the field and around a



OGDEN'S FINE CUT

EASY TO ROLL—DELIGHTFUL TO SMOKE

Prize Picture



The first snow of the year gave George Almusa of Margo, Sask., a chance to win \$5 for this picture of his home.

straw stack where frost-rimmed cattle are standing, nudging the straw with hoary muzzles this morning and turning their sad, large eyes upon us in bovine wonderment. One old cow is chewing the cud philosophically, hunched out of the sharp sting of the wind. Doubtless she is dreaming of summer days and green clover, but the yearlings near her are not so happy during this wintry moment. They wander aimlessly around, munching on the straw or pawing at the frozen ground in hopes of uncovering an edible weed or grass-clump.

Duck,*Brother!

The rabbit's trail skirted around the stack, then dodged back to its looming bulk. Here



we note the brushed marks of an owl's wings on the snow, and realize that our wandering bunny narrowly escaped death from the talons of Bubo, the Great Horned Owl who is the evil marauder of the night. Notice the frantic dodging of our rabbit's trail, doubling and redoubling to avoid the repeated swoops of the owl. Back to the stack went bunny, there to bolt under the protective screen of an overhanging ledge of straw and snow. A patient wait was next required, before the hungry owl gave up its hopes for a rabbit supper and went flapping silently away on down-muffled feathers to hunt for another victim.

Here we find the rabbit's trail again, and this time the little animal does no more wandering. Straight to the nearest woodland he goes, away from the bald field where owls may forage. Over to the woodlands, then, and once there our rabbit hunches down under a small spruce tree to survey the surrounding scene.

We find many tracks here, plus more animated forms of woodland life. A Downy woodpecker is chiselling into a de-

cayed balm stump nearby, while a Chickadee whisks through the underbrush to hang upside down on a twig near us, surveying us brightly while lisping its Tska-dee-dee song. The pleasantly haunting note of the Red-breasted Nuthatch comes echoing through the morning air, "quank! quannk! quannnnnnk!" We do not see the little bird, but remember its busy ways on a tree trunk, running headfirst down the bark while searching out the microscopic eggs of plant lice and other tree pests.

What a Day!

Now the rabbit leaves the spruce tree and hops through a saskatoon thicket to get into the main part of the poplar and spruce forest. But a coyote was waiting, and suddenly we see that a race was run. The rabbit easily won, dodging over the ridge and into the thick stand of young spruce growing so plentifully there. The coyote ran a close second to the nimble hare, but came to a stop outside the dense-growing spruce and detoured around it. The rabbit did not come out the other side, contentedly hunching in the thickest part of the screen and patiently waited for the coyote to go away.

While learning this information about our perambulating rabbit, we disturbed a wary cock grouse, Old Ruffy the bush partridge. He flew from the spruce thicket, where he had been scratching on the sunny edge for the red chicken-berry fruits so beloved by all the grouse. Look at the neat track that partridge left behind him: see the tree-toed mark, with tiny hair-lines evenly spaced out from each toe? Those hair-lines are the grouse's winter snow-shoes, a special growth of skin-tissue that helps the bird walk comfortably on the deepest snows of winter.

Where is our rabbit? Ah, here come his tracks, out the north end of the spruce thicket to lope down the hill to the creek. Alongside the creek are many willows, growing so thickly that only a rabbit can conveniently navigate that tangled growth. Here we will say goodbye to his track, wishing him a good day's slumber amidst his beloved willows.

WAR SURPLUS SALE!

LEATHER PANTS

Lined With Genuine Shearling

• Order direct from

this advertisement

Farmers-Hunters
Truckers and all
Outdoor Men!

GOV'T COST: \$40.00

- Fully lined with genuine sheep-skin shearling
- Full length (waist to bottom) zippers
- Entire pant of select glove leather
- Wide elastic web braces

It's the greatest cold weather garment ever made — talk about warmth—they'll keep you cozy in 60 below. Two deep patch pockets on legs. Entire pant can be opened to lay flat—can be used as rug. Years of wear. Practical for every outdoor man and now at a fraction of original cost. Order yours early! Sizes: To fit 32, 33, 34, 35, 36, 37, 38-ins. waist. CLASS "A" QUALITY, PRACTICALLY NEW.

657—SALE \$9.95

PAIR

Brand new, similar to above in every particular. Sizes as above.

656—SALE, \$11.95

PAIR

PLUS 50c POSTAGE FOR DELIVERY ANYWHERE IN CANADA



ARMY & NAVY MAIL ORDER REGINA
DEPT. STORE LTD.

WINDOW GLASS :: Any Size or Quantity

THE BENNETT GLASS CO. LTD.

M 1778

228 - 7th Avenue East,

CALGARY



Form a Snow Plow Club



- Get your produce to market
- Be safe — in emergencies, sickness
- Save wear and tear on your car

Now is the time to organize four or five neighbors into a Snow Plow Club. Keep your roads open. Band together and buy a Richardson Rotary Snow Plow. Already over 200 farm syndicates have found the Richardson Rotary keeps isolated, drifting roads open all winter for only \$30.00 per mile. And the Richardson Rotary fits any 4-plow farm tractor. Act now before winter sets in.

For Further Information write or see

CRUICKSHANK ROAD MACHINERY

768 - 9th Avenue East, Calgary

Phone M 3017

MIRRORS RESILVERED

THE BENNETT GLASS CO. LTD.

M 1778 228 - 7th Avenue East,

CALGARY

The Swing is to Angus



- Always a **READY** market — selling often at a premium.
- Good rustlers — adaptable to any climate or condition.
- Vigorous and hardy — withstand extremes of heat and cold.
- Uniform color and type.
- Hornless.
- Good breeders — few calving losses due to small bone conformation — plenty of good rich milk.
- Early maturing — respond rapidly and economically to feeding.
- Carry same flesh on less feed.

Aberdeen-Angus have won more grand championships at the International than all other breeds combined. And every animal hung in the final carcass class was **BLACK**. Switch to Angus **NOW** — share in this premium market by breeding and feeding Aberdeen-Angus.

Alberta Aberdeen-Angus Breeders' Association

Ken Gibb, Pres.
Killam, Alta.

Jack McBride, Secty.,
Benalto, Alta.

The story of William Cochrane builder of the river churches

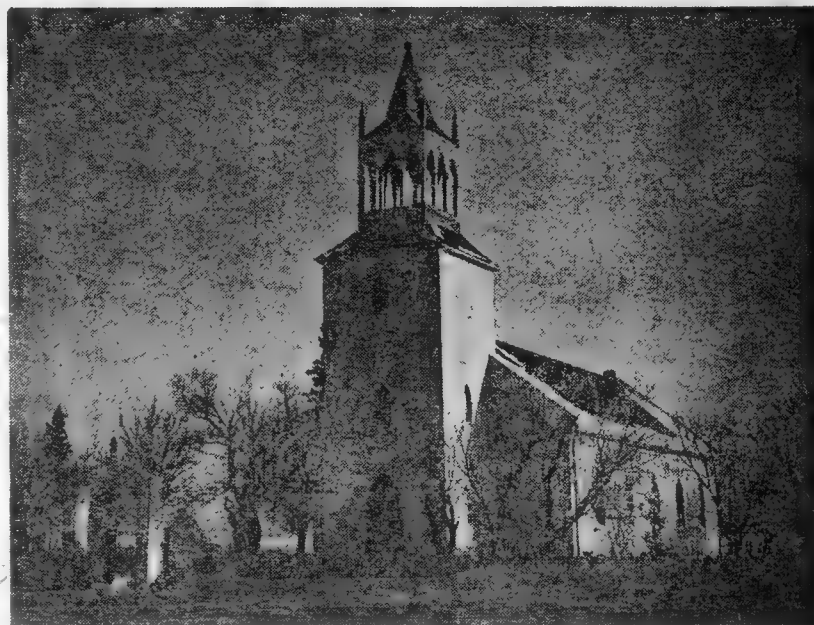
By NAN SHIPLEY

THE centennial of any historic event in Western Canada is occasion for rejoicing and renewed interest in the men and women behind the event for the city of Quebec was more than 200 years old before the first white settler — the first white woman reached the country west of the Great Lakes! It was not until 1812 that a party of Scottish farmers with their wives and children stepped from sailing-vessel to clumsy York boat and made their epic seven-week journey from Hudson Bay down to the junction of the Red and Assiniboine rivers to open

through a piece of pin-pricked parchment — buffalo hide scraped free of hair — the same material that served as door and windows in lieu of glass.

Chastened by near starvation winters and having constantly to share his children's food with Indian fathers begging for their own starving offspring, Cochrane realized that if the natives were to escape suffering and periods of famine they must learn to till the land. But he had first to obtain the permission of the Indian Chief Peguis, leader of the district tribe.

Peguis was a tall, intelligent



the world's greatest bread-basket!

Thirteen years later on October 7th, 1825, the Reverend William Cochrane and his young wife arrived at the new settlement.

It was a hard winter. The spring following brought the worst flood ever experienced so that the missionary and his wife had to take up housekeeping twenty miles away on high land until mid-June. Upon their return to what is now Winnipeg, they found that their home was one of three that remained. But crops were late and food very scarce, and long before the barley was ripe Reverend Cochrane cut a few sheaves and set them to dry before the fire-place.

"There was nothing else to eat," he wrote in his diary, and that winter the people lived on barley, potatoes, hazel-nuts and a few fish caught through the river ice.

Three years later, Cochrane took his family down the river about twelve miles north to Grand Rapids, near the present site of Lockport. A strategic point for the Red River was the country's chief highway and all travellers had to portage past the fast water. Here in a hut constructed of mud and logs Mrs. Cochrane ground grain between two stones dug from the river bank and sifted the flour

Indian — handsome too in spite of his shortened nose — having lost a portion of it in a fight. When he appealed to Cochrane for food he could not but compare the whiteman's comfort to the wretched state of his own family. His children, hungry and ragged huddled together in a skin tent that let in the drifting snow. The Chief was in debt — heavily in debt — overdrawn at the trading-post to the amount of three hundred muskrat skins.

Peguis consented in the spring to Cochrane's plan to teach the Indians agriculture. This meant that the missionary had to leave his home at Grand Rapids every Monday morning and journey down the river to the camp. He took two helpers, oxen, plough and some seed. They worked steadily all week and returned home Friday night. The Indians were vastly amused and scornful of the experiment and continued their gambling games and dancing to the never-ending throb of the drum — "as regular as the ticking of the clock and accompanied by the conjurer's 'ho-ho-ho'" Cochrane wrote in his disappointment.

But a little later he was able to report in joy — "Three years ago my house, school, congregation and church were all imaginary; the glass and nails in England, the timber growing in the

forest, and half my congregation wandering heathens." By this time Chief Peguis had moved into a log cabin complete and had his own small vegetable garden. Many of his people followed his example. There was a mill and a school and the little church named St. Peters which gave the Indian village its name.

Peguis was a good friend to Cochrane and as more and more of his kinsmen accepted Christianity he, too, embraced the missionary's faith. As his new name, he chose William King — the first in honor of his friend, the last in recognition of his position among the Indians.

This step was not without cost to Peguis for his eldest son steadfastly refused to recognize the white man's way of life, and after failing to rally the rest of the tribe against his father, the



young man departed. A few years later he committed suicide in grief over the death of his little daughter, and his body prepared for native burial was returned to Peguis.

This noble man, disappointed at the regulations that would not permit him to bury his son in the churchyard stripped the body of its heathenish trappings — the red feathers in the long hair, red paint on the cold face, beads in ears and nose and necklace about the throat — and in a coffin placed the corpse as close to the holy ground as possible.

It is surely fitting that one of the tallest monuments in Winnipeg pays homage to this man of extraordinary faith and loyalty to his new beliefs.

First Boom Known

With the erection of Lower Fort Garry the maintenance of a large staff there and the arrival of two hundred soldiers and their families from England, the population about Grand Rapids grew very rapidly and Cochrane's little log church was filled to overflowing on occasion of religious service, weddings and funerals.

A larger church was needed, and finally plans were made for the building of St. Andrews. Timber had to be hand-sawn, nails and shingles made, stone and lime gathered. A great amount of labor in addition to money was donated by the settlers. The story is well known of how several men, each thinking to be the first to turn the sod, rose before dawn only to find Reverend Cochrane already working on the job by lantern light!

The church was completed in 1849 — each family having its own little boxed-in pew, the prayer-benches covered with buffalo-hide, the heat supplied by Carron stoves brought from Scotland along the seven-hundred-mile waterway, and candles set in wooden wheels hung

like chandeliers from the ceiling. It was an imposing building and visible for many, many miles along the winding Red River.

That same year, work was begun on a fine stone rectory across the road from the church and Mrs. Cochrane's gladness can readily be understood as she must have watched its progress after so many years in tent and humble hut.

But her house-pride was short-lived for by 1851 her husband was convinced that his duty lay elsewhere, and he moved his family to Portage la Prairie. At this date there were no homes here — only a few Indian tents about the Hudson's Bay post, and the Company was not anxious that there should be, thinking perhaps that it might harm trade at the steadily growing Red River Settlement. It was then that the Hudson's Bay Governor George Simpson said to Cochrane, "I wish you to understand that I am quite opposed to your establishing a settlement up there."

The missionary's reply is characteristic. "I am going up there to establish a mission, and I am going up this very day!"

The Indian horse-trader, Pacheetoo became Cochrane's good friend here. Like Peguis he was of imperfect appearance having lost an eye; a fact he tried to conceal by wearing a long hank of black hair over one side of his face. Pacheetoo was quick to adopt the whiteman's ways, and his cabin was white-washed indoors and out, the door and windows painted red. He travelled to the States to make the most modern purchases — once a pair of glass-candlesticks which were in his doorway for all to admire and another time he bought and planted lawn grass-seed — sad to report without success.

Cochrane's success with the Indians is all the more remarkable when it is remembered that he could only speak half a dozen words in their language. His favorite greeting to them was a hearty — "Wachee! Wachee!" A corruption of the English "What cheer" popular at that time. Without doubt his great physical strength and sense of fair-play held their admiration.

After forty years of devoted and arduous service among the prairie Indians, Cochrane and his wife made a covered-wagon trek to Toronto to spend their last few years in ease. But that same fall they were back at a little church not far from Portage. Later after bathing in the chill waters of White Mud River Cochrane contracted a bad cold and died October 1st, 1865.

In accordance with his wishes he was buried near the door of his most famous church, St. Andrews, at Grand Rapids — "Where the feet of the worshippers pass" and it is somehow significant of William Cochrane's physical and spiritual strength that St. Andrews remains the oldest church in Western Canada still used for divine worship.

Sail
White Empress
FREQUENT WINTER CROSSINGS
TO *Europe*

Your dollar now buys much more in England and on the Continent. Plan a leisurely winter crossing on a Canadian Pacific White Empress and enjoy a "holiday week" at sea en route. Both famous Empress liners feature spacious bedrooms and lounges . . . games, dancing, movies . . . superb cuisine and faultless service. Return accommodation available. There never was a better time than now to visit Europe.

Winter Sailings

From Saint John (train to shipside) and from Halifax one day later.

EMPRESS OF CANADA EMPRESS OF FRANCE

December 30* • March 1 January 18 • February 15

March 29 March 15 • April 12

* Will call at Glasgow (Greenock).

First Class
\$264 up

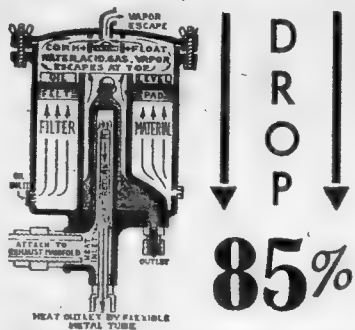
Tourist
\$167 up

Canadian Pacific's famous shipboard hospitality is also yours on the passenger-carrying freighters **Beaverford** and **Beaverburn**. Sailings approximately twice monthly, dates on request. First-Class fare \$220.

Full information from your own travel agent or any Canadian Pacific office.

Canadian Pacific

COSTS



RECLAIMO users have found that oil bills are cut by 85% and that motor life is doubled. Reclamo's super filter refiner action that removes solids by filtration and water and fuel dilution by heat and evaporation makes only seasonal oil changes necessary. Install Reclamos on ALL motors and save.

WRITE FOR FREE BOOKLET

RECLAIMO

Company (Canada)
617FR-10th Ave. W. CALGARY

WHEN WRITING THE ADVERTISERS.
PLEASE MENTION THE
FARM AND RANCH REVIEW

Follow a few simple rules to get plant blooms all winter

By H. F. HARP

Now that the days are getting shorter all plant growth is geared down to meet conditions of less heat and sunlight. House plants in general will require less water than they did in summer. In some instances a complete rest must be given. Tuberous Begonias, Gloxinias, and Achimenes (Cupid's Bower) should now be prepared for their resting period. Begonias that have done flowering should be moved to a cool room and the water supply gradually reduced till leaves are yellow when no further watering is needed. When the ripening process is complete the top growth will part from the bulb at the slightest touch. Bulbs are then taken from the pots and stored in dry peat or sawdust at a temperature of 45°.

Gloxinias should be dried off

by gradually reducing the water supply. When leaves turn brown no further watering is needed and the bulbs are taken out of the soil and stored in the same manner as outlined for Begonias.

Achimenes are best left in their pots after top growth has died down, storing the pots on their sides in a cool basement. They are repotted and started into growth in early March.

Winter Flowering Begonias

The plant most commonly met with in this group is Begonia semperflorens. It has roundish, glossy leaves and rather thick stems. As its name implies it is very free blooming, the smallest plants are usually full of flowers. Shades of red and pink are mostly seen, but there is a very pretty white form with dark green leaves. This type of Begonia is best grown in small pots, the four or five-inch size is plenty big enough. Larger plants are not effective as the plant is naturally dwarf in habit. Full sunlight is recommended from now till March when a little shade will be appreciated. Attention to watering must be careful and regular.

See that the plants are fairly dry before water is applied and remember that the operation is best carried out in the morning using water at room temperature. Excess water around the crowns of the plants, especially if night temperatures are low will lead to trouble in the form of leaf diseases, mildew, etc.

Begonias of the Angel Wing, Beefsteak or other winter flowering types should be afforded much the same treatment as already given for Begonia semperflorens. A south or west window will suit them very well till early summer sunshine will prove too strong for them.

African Violets

The popularity of these plants appears to increase each year. It is really amazing how a plant that has been known to man for so long should suddenly come out of obscurity and adorn the window sills of almost all homes where plants are seen.

The dry atmosphere of most dwelling houses would not be considered well suited to the culture of African Violets, yet they seem tolerant and quite good specimens are not uncommon in the homes of enthusiastic plant lovers.

Plants that have spent the summer in a north or an east window should now be given a position of more light. They may be placed in a south window, providing it is reasonably free of draughts. Great care is necessary in applying water to these plants at any season, but especially is this true from now on through winter's dark days.

First, the plant must definitely stand in need of water before any is given. Second, use only

soft water that has been heated to room temperature or a few degrees warmer. Apply by means of an old teapot or other container having a spout. It is most important to avoid wetting the foliage. Sloppiness in this regard will result in disfigured leaves. Let it be understood once and for all that watering African Violets by means of setting the plants in bowls of water is not an infallible method. Such a practice is not altogether harmful providing the pots are not allowed to remain in the water too long. They must be taken out as soon as the moisture has reached the top soil. Frequently they are left to get completely water-logged and the young feeder roots are injured. Surplus water must be drained off before replacing pots on their saucers.

Geraniums

Perhaps the Geranium may be called the most common of all house plants. It is one that is widely adaptable and tolerant of mistreatment. Being so kindly disposed it usually is rewarded with more than its share of neglect. No plant responds more readily to good cultivation and well grown Geranium plants are handsome adornments to the home.

Complaints are often heard that Geraniums are dropping their flower buds and are growing too tall and leggy. The fault lies usually in bad cultural methods. Geraniums are often lifted from positions outdoors and potted in pails, or large pots that allow the plants far too much root room. The result is an abundance of leaf growth and little or no bloom.

For a satisfactory display of winter flowering plants a start should be made when the Geraniums are occupying their summer quarters in beds or borders. In August they should be cut back to hard wood leaving stubs an inch or so long. As new growth commences the plants should be carefully lifted and potted into pots, five inches or, at most, six inches in diameter. The soil must be packed very

Prize Picture



P. J. Oschipok, Hafford, Sask., sent us this shot of the water erosion caused by a heavy shower last sum-

Sow the Seeds OF YOUR OWN FUTURE, TOO!

Plan NOW, while you are earning money, for the days when you will need to ease up. A GOVERNMENT ANNUITY will pay you a regular income as long as you live—will keep you free from worry about the future—if you provide for it NOW.



- A low-cost Canadian Government Annuity guarantees you as much as \$1200 a year for life.
- No Medical Examination is required.
- Your Annuity cannot be seized under any law. You cannot lose your money even if your payments fall into arrears.
- Anyone, from 5 to 85, is eligible.



Annuities Branch
DEPARTMENT OF LABOUR

HUMPHREY MITCHELL Minister A. MacNAMARA Deputy Minister

Canadian Government
ANNUITIES
Provide for Old Age

Mail this Coupon today POSTAGE FREE

Annuities Branch,
Department of Labour, Ottawa.

Please send me COMPLETE INFORMATION about Canadian Government Annuities.

NAME _____

(PRINT CLEARLY)

ADDRESS _____

F11

firmly around the roots. Careful attention to watering must be given till plants are well clothed with leaves when more generous supplies will be needed.

Geraniums are sun and warmth-loving plants so that cold and wet conditions must be guarded against. Plants receiving a check by over-watering or drying out will drop flower buds and leaves will turn yellow. After the turn of the year a light dressing of a complete fertilizer such as "Vigoro" will be beneficial.

Other varieties such as Ivy-leaved and scented-leaved are less popular than the "Zonal" types and not as showy. Ivy-leaved Geraniums will make attractive plants when trained on a window trellis. Their cultural requirements are much the same as outlined for ordinary Geraniums. Scented-leaved kinds are easy to grow and make interesting plants. Peppermint-scented and Nutmeg-scented are common ones. The foliage is finely cut, or deeply lobed. Flowers are insignificant in most varieties, but the plants are of particular interest to many on account of their old-world associations.

Pelargoniums (Pansy Geraniums, Lady Washingtons)

These are readily distinguished from the ordinary Geraniums by their rather coarse, dark-green leaves, that are harsh to the touch and by the seasonal flowering habit of the plants. The flowers are striking with bold blotches and markings. The plants do not take kindly to house culture when allowed to remain indoors all the year round. They should have a period outdoors from June till September. Fair success may be had by following a definite routine culture. When flowering is over place plants outside in a sheltered spot. Watering is reduced till leaves begin to drop. Complete drying out must be guarded against. In very hot weather the plants must be regularly attended to and water applied as required.

In September the old plants are cut back to old wood and the tips of the growths may be used for cuttings. Plants and cuttings can remain outside till there is danger of frost when they should be removed to a sunny window.

Early in February the old plants should be taken out of the pots and most of the soil removed from the roots. They are then potted up in fresh soil. Cuttings that were rooted in sand can now be potted into three-inch pots of soil. A few weeks later it will be necessary to pinch out the tip growth of these so that they will form bushy plants. As growth continues a further potting into five-inch pots will be needed. Old plants will greatly appreciate a dressing of Vigoro—a teaspoonful to each pot when flower buds first make their appearance.

CAPITAL
\$7,000,000
RESERVE
\$10,000,000



A complete Banking Service is available through our Canadian Branches and Foreign Agents throughout the world.

IMPERIAL BANK OF CANADA

75th ANNUAL STATEMENT

Year ending 31st October, 1949

ASSETS

Deposits with and Notes of Bank of Canada	\$ 49,326,930.12
Notes of and Cheques on Other Banks	24,207,063.44
Other Cash and Deposits	9,182,411.94
Government and Municipal Securities (not exceeding market value)	213,526,555.96
Other Bonds and Stocks (not exceeding market value)	14,485,675.31
Call Loans (secured)	6,070,783.76
TOTAL QUICK ASSETS	\$316,799,420.53
Commercial and Other Loans (after provision for bad and doubtful debts)	187,107,243.36
Liabilities of Customers under Acceptances and Letters of Credit (as per contra)	8,662,762.90
Bank Premises	6,372,376.56
Other Assets	98,766.23
	\$519,040,569.58

LIABILITIES

Deposits	\$490,510,614.05
Notes in Circulation	703,137.50
Acceptances and Letters of Credit Outstanding	8,662,762.90
Other Liabilities	160,832.33
TOTAL LIABILITIES TO THE PUBLIC	\$500,037,346.78
Dividends due Shareholders	212,188.88
Capital, Reserve and Undivided Profits	18,791,033.92
	\$519,040,569.58

PROFIT AND LOSS ACCOUNT

Profits for the year ended 31st October, 1949, after contributions to Staff Pension Fund and after making appropriations to Contingency Reserves out of which full provision for bad and doubtful debts has been made	\$ 2,110,075.15
Provision for depreciation of Bank Premises, Furniture and Equipment	315,820.07
	\$ 1,794,255.08
Provision for Dominion and Provincial Taxes	679,000.00
	\$ 1,115,255.08
Dividends at the rate of \$1.20 per share	840,000.00
Balance of Profits carried forward	\$ 275,255.08
Profit and Loss Balance 30th October, 1948	1,515,778.84
Profit and Loss Balance 31st October, 1949	\$ 1,791,033.92

RESERVE FUND

Balance at credit of account 31st October, 1949	\$ 10,000,000.00
---	-------------------------

R. S. WALDIE,
Chairman of the Board

W. G. MORE,
President

I. K. JOHNSTON,
General Manager

Free Book
MOUNT BIRDS, ANIMALS, FISH
Yes, FREE. Explains Taxidermy. Tells how to learn at home by mail to mount birds, animals, heads... to TAN skins and furs. Great for MEN and BOYS. Also earn money in spare time. WRITE TODAY—NOW—for free book containing 100 game pictures. State AGE. N.W. School of Taxidermy, Dept. 8612, Omaha, Neb.

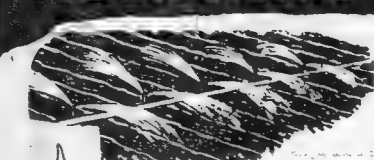
MAIL Postal Today

Rupture Troubles Ended

Advanced method has healed thousands. No leg straps, no elastic, no plasters. No pressure on hips or spine. Flexo-pad. Entirely different. Endorsed by doctors, mechanics, clerks. Very light. INEXPENSIVE. GUARANTEED. Write for information and trial.

SMITH MANUFACTURING COMPANY
EST'D 1893 DEPT D-98, PRESTON, ONT

SPRINKLER IRRIGATION Tailor Made FOR YOUR FARM



by Agricultural Engineers who design, install, and service your individual system.

"Tailor Made" engineering established Anderson Miller as the leader in the sprinkler irrigation field with well over 50% of all American installations being Anderson Miller.

We now offer you this same service and equipment. The simplified A-M design means trouble-free operation, hours of time saved and greatly reduced labor costs. Let our engineering staff help you with your irrigation problems.

WRITE US TODAY!

SPRINKLER IRRIGATION
AND EQUIPMENT CO.
205 10th Ave. W. CALGARY, ALTA.

B.C. Potato Show attracts growers but not consumers

By A. J. DALRYMPLE

VANCOUVER.—Among the liveliest grower organizations in British Columbia are those specializing in production of seed potatoes and table stock. They held their ninth annual Potato Show in University of B.C. armories, Nov. 1-3, under the auspices of Coast Vegetable Marketing Board.

The show, together with its planning, its program and its results may well be studied by other agricultural organizations for certain lessons which may be gained as time goes on.

In the first place officials of the potato associations at the coast, the Cariboo and the Okanagan and Vancouver Island are blessed with a keen sense of the value of public relations, consumer reactions, centering around a product of proven high quality.

There were approximately 90 classes in the show. Competition was exceptionally keen between growers of coastal valleys and other districts. Reason for this is that Grand Forks region has made world records. The Cariboo with advantage of dry belt climate and isolation is enthusiastically increasing production. Pemberton on the Pacific Great Eastern is moving forward under a reclamation scheme. Comox Valley on Vancouver Island is out to advertise its wares.

There you have the requirements for a successful show from a grower standpoint. And from a grower's viewpoint it was a success. It was, they said, the biggest and best potato

Winter Wonderland



show on the North American Continent.

But these farmers are not fooling themselves. They know that grower interest is not enough. They want to increase consumption of high quality

spuds. To do this they must interest the housewife. They must woo her with tasty recipes and educational devices that will lead her into the path of studying potato values at her disposal through retail channels.

The farmers realize, too, that potatoes as such, will not draw a crowd. A big building set with tables bearing trays of White

Rose, Netted Gem and Green Mountains awaken little interest in the general public.

So, in a year's planning for the 1949 show arrangements centred around possible attractions that would encourage increased attendance. The result was a fashion show, raffle of a fur coat, and numerous addresses designed to interest Mr. and Mrs. John Public on production and marketing of vegetables; in other words, to show them the way to better living through selection of better grade foods.

Flanking the trays of potatoes were a score of booths with bright displays advertising the quality produce of various grower organizations. Industrialists, such as chemical companies, came in with booths



demonstrating their products; and there was a representative exhibition of machinery.

Disappointing

A lot of money was spent on that show; but the daily attendance was much lower than was desired by the association officials. Daily attendance ran to several hundred when it had been hoped it would run into thousands. The finale, the ban-

Season's Greetings...

THE Delegates, Directors and Management of the Alberta Wheat Pool desire to express to Pool members and patrons of Alberta Pool Elevators their sincere appreciation for the substantial support accorded during the past year.

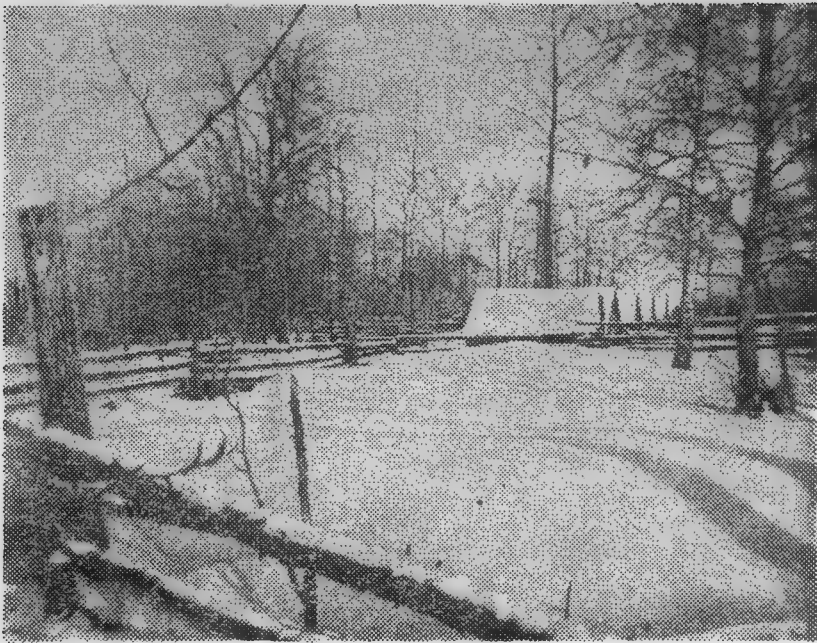
The Alberta Wheat Pool and Pool Elevators are growing in importance and influence with each passing year, thanks to the trust reposed in this farmer-owned co-operative by so many grain producers.

The co-operative movement is steadily moving forward towards the objective of creating a better and happier world. It is seeking through the operation of co-operative organizations to introduce the principle of the Golden Rule into the business life of the province.

As Christmastime approaches and the year 1949 gradually comes to a close, best wishes are extended for a Merry Christmas and a Happy New Year.

ALBERTA WHEAT POOL

Prize Picture



Mrs. M. Chartrand, Therien, Alta., took this picture of new fallen snow sharply outlining the hog pens on their farm. It should supply a useful tip to all amateur photographers. New snow can only be photographed well if there is lots of sharp contrast in the picture.

quet held on the final night drew 350 persons, and rounded out better than average numbers. But that was not enough.

There were three reasons for unsatisfactory attendance. First: Vancouver is a city of great distances, and the university armories are a long way from downtown. A central location could not be had, and many persons balked at going so far in foggy weather to see a potato show.

Secondly, there was a 50 cents admission charge with a chance on door prizes and the fur coat raffle. The possible winnings were not sufficient to offset the price of an entry ticket; and although it is estimated that there were 7,000 students right on the grounds, not many would go for 50 cents for a potato show.

Thirdly, the educational talks in themselves are not much on drawing power. The fashion show and light entertainment had the most pull.

Why the 50-cent fee? The management did not want the show over-run with uninterested persons looking for the cheap entertainment; and while the officials did not want to make

money, they did want to get some of their expenses back.

All this is not to say that the show was not a success. It did very well; but to progressive-minded officials and growers, the primary thought is consumer interest, and that will be the keynote again in planning the next show.

One of the first objectives for the 1950 exhibition will be a central location. Secondly, there will likely be a drop in admission price, or some device that will draw large numbers of really interested persons.

And, lastly, the entertainment, will likely be of a frothy nature, light and airy, with emphasis on fun. The slogan may be "Fun at the Potato Show." The idea will be to get the public in, give them a good time, and let them learn a little about agriculture a little at a time.

The grower organizations are not down-hearted; in fact, just the reverse. But they know that some changes are not only desirable but necessary, and that is the way they are going to approach the show situation in their planning meetings during the coming months.

Solution to last month's puzzle

C	A	B	L	E	G	U	L	A	R	D	E	A	N	S	A	M	O	N	G		
C	A	M	E	R	R	O	P	E	R	A	E	C	L	A	T	E	G	O	M	E	R
A	M	G	A	R	B	A	T	T	E	N	U	A	T	E	A	A	W	E			
B	O	G	S	O	B	S	S	E	A	T	R	A	R	E	R	L	E	E			
A	N	O	N	A	L	A	S	D	R	A	M	L	E	X	T	O	L	D			
	A	R	D	E	N	C	Y	S	T	O	P	S	T	R	I	P					
G	R	O	V	E	S	D	O	E	S	E	T	A	H	R	I	D	E	R	S		
L	A	R	E	S	C	A	R	T	O	N	S	P	O	R	U	L	E	O	O		
O	V	I	S	B	A	L	E	N	O	B	S	U	E	D	E	R	O	D			
B	E	G	C	U	R	S	C	A	T	E	S	S	E	E	R	O	S	A			
E	D	I	T	O	R	S	V	A	N	E	A	V	E	S	W	A	I	T	S		
	N	O	R	N	P	A	R	T	S	P	A	D	S	O	N	S					
S	C	A	R	E	W	I	N	G	S	P	O	T	S	P	A	T	T	E	R		
P	A	T	E	M	A	N	O	T	H	E	R	H	U	E	D	E	R	A			
R	U	E	G	U	S	T	S	O	I	L	C	H	U	E	D	C	R	O	W		
I	S	S	A	M	P	L	E	S	P	L	E	A	D	S	T	H	E	S	E		
T	E	D	I	U	M	E	N	I	D	S	A	N	D	D	E	A	R	E	R		
A	N	D	E	S	S	N	I	P	T	E	L	L	E	R	S						
B	O	N	E	R	E	D	S	L	A	B	D	E	A	P	E	A	S	T			
A	U	K	T	S	A	R	S	A	L	O	E	D	R	E	W	S	H	E			
I	T	H	E	R	O	T	A	T	I	O	N	S	D	R	A	G	E	N			
T	R	O	U	T	E	N	U	R	E	S	T	A	V	E	S	O	L	E	D		
S	E	D	G	E	D	E	N	E	S	T	O	W	E	R	H	A	I	R	S		

WHO, ME?



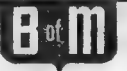
READY MONEY
FOR THE **GO-AHEAD**
FARMER

Follow the example of thousands of farmers from coast to coast and discuss your credit need for farm improvements with the manager of your nearest BofM office. Ask or write for our folder. "Quiz for a Go-ahead Farmer."

MY BANK
FOR A MILLION CANADIANS

BANK OF MONTREAL

working with Canadians in every walk of life since 1817



AD-8

Economical Production

is going to be even more important in the future . . . and Jerseys have won a deservedly high reputation for economy of production. You owe it to yourself to look into the possibilities in Jerseys.

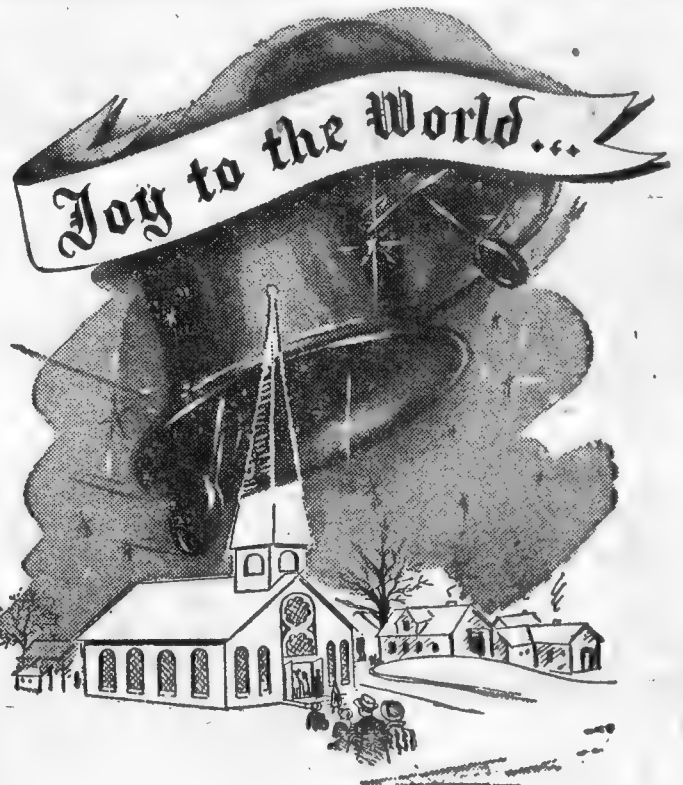
A note with your name and address will bring you the straight facts. No obligation, of course. Write O. C. Evans, Chilliwack, B.C. (Western fieldman), or



IT DOESN'T COST A FORTUNE TO GET INTO JERSEYS!

CANADIAN JERSEY CATTLE CLUB

749 Yonge St., Toronto, Ont.



We extend to all our most hearty wishes

for a very Merry Christmas and a

Happy, Prosperous New Year.



ALBERTA BREWERS' AGENTS LIMITED

REPRESENTING

BIG HORN BREWING CO. LTD.
CALGARY BREWING & MALTING CO. LTD.
SICKS' EDMONTON BREWERY LTD.
SICKS' LETHBRIDGE BREWERY LTD.
NORTH-WEST BREWING CO. LTD.

FREE YOURS IS READY!
BIG 1950 SEED AND NURSERY BOOK
Bigger than Ever
SEND TODAY



DOMINION SEED HOUSE
 GEORGETOWN, ONT.

NEW MIRRORS, Made to Order
 Any Size or Shape
THE BENNETT GLASS CO. LTD.
 M 1778 228 - 7th Ave. East, Calgary

Films Developed
SHIPLEY
PHOTO SERVICE
 605A - 8th Ave. W., Calgary

Mail Your Films to An Address.
 Know WHERE They Are Going.
 8 Exposure Rolls, 30c
 12 Exposure Rolls, 45c
 16 Exposure Rolls, 60c
 Jumbo Size, Add 5c
 Extra Prints, 4c each.
 Extra Jumbos, 5c each.

Your films developed the day they arrive, then **RUSHED BACK** — postpaid.
 Send money with films and avoid mail charges.

Minimum order 25c
 Orders From Calgary Not Accepted

MAKE YOUR WELL "Artesian"
...ENJOY **Jacuzzi**
"AUTOMATIC WATER"

YOUR BEST BUY IN Pumps and Systems



Alberta Distributors:
BRUCE ROBINSON ELECTRIC LTD.
 Calgary — Edmonton



Feeding for winter cream cheques

THERE is probably no farm animal that responds as quickly to good care and feeding as does the milk cow.

Before starting winter feeding, it is wise to look over the cow herd. Cows, which are low producers, are expensive producers. They will require almost as much feed as high producers. Therefore, particularly in years of feed shortages, it is only good business to cull out all cows of this type. With beef prices at a high level, this culling can now be accomplished to advantage.

Cows, which are producing milk, have a twofold job to do, i.e., maintaining body weight and producing milk. Maintaining body weight requires almost the entire intake of ordinary hay. The production of milk must then come from additional feeding. Milk is a high protein product. Feeds, which are high in protein, such as alfalfa or silage, which are succulent as well, make ideal feeds for dairy cattle. Where neither of these is available any good quality, non-leguminous hay can be fed. When this is supplemented with a protein concentrate such as linseed oilcake, excellent results are obtained.

Of course, it is necessary to feed grain in order to reach an efficient, high level of production. A general rule in feeding dairy cattle is to allow 2 to 2½ pounds of roughage per day, per 100 pounds of live weight of the cow. Best results are obtained if 50 per cent of this roughage is made up of alfalfa. In addition, 1 pound of grain or grain and protein concentrate mixture per day should be fed for every 3 or 4 pounds of daily milk production.

A ration of this type at first

glance would seem to be an expensive one. However, in feeding dairy cattle the aim is maximum milk for each feed dollar. There is no substitute for high quality feeds when high production and efficient production are the aims of the dairyman.

Hammering roughage for livestock

IN view of local scarcity of feed farmers have become interested in the utilization of waste material as feed. In most cases, this has taken the form of mixtures of cereal grain and Russian thistle.

It is well known that livestock waste some considerable amount of feed, nosing it over, eating the choice tender parts and trampling the coarser stocks underfoot. This would happen when feeding a grain-thistle mixture in its natural stage. Grinding of roughage, in addition to eliminating waste, will aid digestion, help mastication for animals with poor teeth, and



increase the consumption of feed per unit of time. This latter is particularly important toward the end of the fattening period just prior to sale. It is advisable to feed some supplement in conjunction with such a mixture.

For beef and dairy cattle and for sheep, a medium to coarse grind is recommended. This may be accomplished by using a screen with ¾-inch to 1¼-inch openings, or eliminating the screws entirely. It is doubtful if the thistle mixture will pass through finer screens, particularly if the moisture content is high.

Mills will run at maximum efficiency if kept up to capacity. This may be maintained by uniform, steady feeding, and is accomplished by the use of self-feeders with a volume governor. Efficiency of operation will drop if slugs of damp roughage are put into the machine.

Power requirements for hammermills are usually high, a two-plow tractor being necessary. This will, of course, vary with the moisture content of the roughage and the coarseness or fibre content. As the fineness of grind increases, the power required will also increase.

The Winner



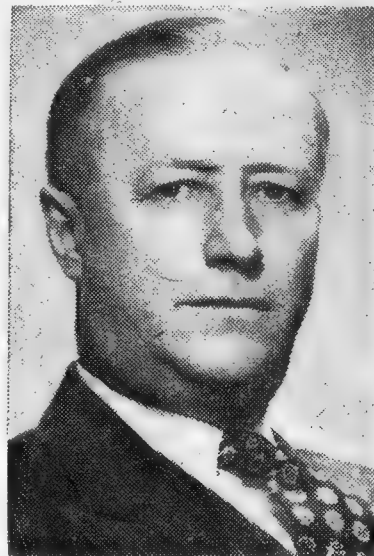
Sixteen-year-old Katharine Dennington and the Farm and Ranch Review shield she won at the Darwell Fair.

Truckers can cut stock losses

A penalty plan, at South St. Paul Market in the United States, whereby live stock truckers with greater than average losses in deads and cripples are required to pay 20% of excessive losses out of pocket rather than passing them on to insurance companies has proven effective. Since initiation of the penalty agreement rider to insurance policies 18 months ago, there has been a considerable drop in losses.

Claims paid to 33 truckers before signing the penalty agreement were \$87,957, or a loss of \$1.77 for every dollar of premium collected. For a like period after signing, however, these losses dropped to \$35,886 — a

C.N.R. Director



W. J. Parker, president of the Manitoba Wheat Pool, who was recently named a director of the Canadian National Railways.

loss ratio of \$0.97 for every dollar of premium. One insurance company thought a mistake had been made. An additional audit confirmed the record as reported.

One truck operator had a loss ratio of 502%—claims paid being five times the premiums collected. In 15 months under the penalty agreement, he reduced losses to 102% of premiums paid. Another trucker with a loss ratio of 192% dropped losses to 15% of premium in 17 months; still another with 484% reduced to 87% in 14 months. Such amazing reductions indicate that carelessness of truckers has a considerable bearing upon injuries to livestock.

The record of achievement made by these truckers—a 45% reduction in losses over 15 months—is quite significant in view of the fact that more than three-fourths of all live stock marketed today arrives by truck. Programs of education or moral persuasion among truckers have met with little success as compared with this penalty plan. From the record made by the South St. Paul truckers, it appears that to them, money talks louder than words in reducing losses.

—Meaty News

Spirit River

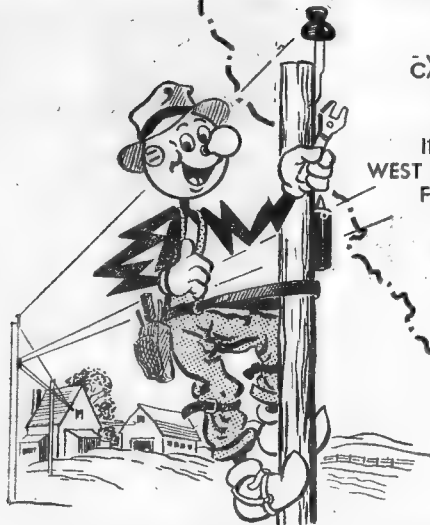
VALHALLA

South La Glace

Sexsmith

GRANDE PRAIRIE

Alberta Farm Electrification IS ROLLING LIKE A SNOWBALL



THE above map gives you a bird's-eye view of the rapidly expanding picture of Rural Electrification in Alberta.

A total of 61 projects have been organized in the area served by this company, 54 of which are already completely or partly electrified.

In Alberta Rural Electrification is expanding and will continue to expand by thousands of farms every year.

You' Enjoy **KERRY WOOD** over **CFCN**, Thurs., 10:15 p.m. in "Alberta Past and Present"



Nov. 18th, 1949.

LEGEND: Shadings On Above Map Indicate the Following:

NOW BEING SERVED UNDER CONSTRUCTION ALREADY SURVEYED
 ■ by Calgary Power Ltd. ■ by Calgary Power Ltd. □ by Calgary Power Ltd.
 ▨ by other companies ▨ by other companies □ by other companies

Numbers on Areas indicate farms served.



CALGARY POWER LTD.

SERVING ALBERTA

WE HAVE IT!



WATERS CONLEY
New Automatic
HOME PASTEURIZER

Protects you and your family from dangers of unpasteurized milk in accordance with recommendations of leading health and sanitation authorities. Simple, easy and economical to use. See it now!

Distributed by
CREAMERY INDUSTRY SUPPLY LTD.
1007A-1st St. East, Calgary, Alta.

Prize Picture



George Almusa of Margo, Sask., won \$5 for this too-typical winter scene on the prairie.

B.C. ROUND-UP

Completion of Hope-Princeton link is a boon to B.C. farmers

By A. J. DALRYMPLE

THE inspiration generated by human achievement is something wonderful to behold. It was manifest in scores of cities, towns, hamlets and isolated ranches on November 2 when a much-battered hinterland trail blossomed forth as the new Hope-Princeton Highway.

Farmers, businessmen, ministers of government, tourist camp operators, historians and all those interested in the development of the Dominion's resources, waxed lyrical over the expansion that will go forward with the operation of this new link between coastal and interior points.

There was some harking back to the century-old struggle to obtain the objective of a super, fast connection between growers, markets and consumers, but in the main all thoughts were directed toward enlarging turn-overs in business and industry.

And for once the primary producer came into his own. Major emphasis was on transportation of agricultural products and movement of goods required by growers. Maybe this is indicative of the fruition of the long sought better understanding of farm problems, and the place that agriculture holds in the prosperity of the community.

True, there was much talk of other advantages of the Hope-Princeton line; the accessibility of spectacular Manning Park; opening of new hunting, fishing, hiking and riding camps; new truck and bus schedules, new gas stations, new business enterprises, more population, more food consumed, more money in circulation for farm produce, and the general well being of the people.

Most inspirational to me was the theme of all the brief, animated stories that came out of the interior prior to the opening of the highway; stories from Keremeos, Kaleden, Oliver and Osoyoos, and a score of other places; and it was noteworthy

that all took the Hope-Princeton as their own; energetic stories, pulsing with the will for greater production, quicker deliveries, more efficiency in marketing and consumer distribution.

Tough Route

The Hope-Princeton link is certainly not lengthy as Canadian distances go; just 83 miles, but it was a tough engineering proposition and cost about \$6,000,000.

It is, however, a vital part of the Southern Provincial Highway scheme of 613 miles; and the whole program since 1945 amounts to 248.15 miles of new and reconstructed highway involving the movement of more than 2,000,000 cubic yards of rock and 8,970,000 cubic yards of other materials.

To date approximately 190 miles have been completed to first-class standard, and a large proportion of this work has been hard-surfaced. Work is continuing on other interior projects.

The new link shortens the distance between coast cities and some Okanagan points by as much as 100 miles, and several hours of roundabout travel. Hope, that flourishing cross-roads centre, and also entrance to the great Fraser Canyon route, is 100 miles east of Vancouver.

Distance is 183 miles from Vancouver to Princeton; and farmers, along with packing-house men and distributors, are planning in terms of hot-shot overnight shipments of perishables.

Meantime the work on Fraser Canyon highway goes on apace. Soon it will be but a memory of tortuous hairpin turns and heavy grades where the trail was so narrow motorists cast a wary eye toward the canyon floor as they traversed the unprotected rim.

Many of these hairpins have been almost obliterated by stretches of new, wide, high-

(Continued on page 25)

Radiators Limited

133 - 5th AVE. WEST

CALGARY

M 1047 TELEPHONE M 1047

Wholesale and Retail

REPAIRING, RE-CORING AND
CLEANING to Restore Circulation



"Desire to Serve — Plus Ability"

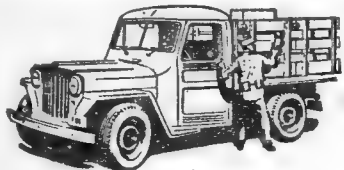
Branches at

Lethbridge & Red Deer

DAD LOVES TO BE REMEMBERED

Give him and other farmer friends A Copy of the **NELSON FARM RECORD** this Xmas. The most useful Gift you could select. He will appreciate and remember your choice. See advertisement on page 39 of this paper.

Before buying a truck see or try out our 4-wheel drive, $\frac{3}{4}$ - 1 ton. Also 4-wheel drive station wagons.



"JEEP TRUCKS" cut hauling cost through long, trouble-free service and low operating costs. Power take-off optional.

When buying a new or used Jeep contact us.

Willys Distributors

MODERN MOTORS

230-6th Ave. West, CALGARY
Phone M 3586

**NEW WATERLOO BELLE CITY THRESHERS
GLENER BALDWIN COMBINES**

SPEEDY REPAIR PARTS SERVICE

for
Waterloo Threshers
George White Threshers
Wood Bros. Threshers
Avery Threshers
Belle City Threshers.

HART FEEDER AND WEIGHER PARTS SERVICE

For all of above machines as well as for other makes.

also
Complete latest style Hart Weighers and Feeders for all makes.
Fibre and Steel Cylinder Drive Pulleys all sizes.
Ratchet Cylinder Wrenches.

Waterloo Machinery (ALBERTA) LIMITED

629 - 10th Ave. West, Phone M9927
Calgary, Alta.

To Feel Well.. Look Well.. Act Well



Dr. Peter Fahrney
1840 - 1905

You must have proper bowel elimination.

If you feel out of sorts, nervous, and suffer from headaches, gas, bloating, upset stomach, bad breath, lack of appetite, loss of sleep — remember — it may all be due to constipation. To relieve constipation

Forni's Alpenkräuter

has proved to be an ideal medicine. Use as directed. Gently and smoothly this laxative and stomachic- tonic puts sluggish bowels to work and aids them to eliminate clogging waste matter; helps expel constipation's gas, gives the stomach that comforting feeling of warmth. Alpenkräuter's amazing effectiveness is due to a scientific formula which combines 18 (not just one or two) of Nature's medicinal herbs, roots and botanicals—a secret formula perfected over a period of 78 years. Yes, for prompt, proven, pleasant relief for constipation's miseries get Alpenkräuter today in your neighborhood or send for

**SPECIAL
Get Acquainted
OFFER**

11 oz. bottle for only \$1.00 shipped postpaid to your door.



MAIL this "SPECIAL OFFER" Coupon—Now

☐ Enclosed is \$1.00. Send me postpaid regular 11 oz. bottle of ALPENKRAUTER.

☐ Send C.O.D. (charges added).

Name.....

Address.....

Postoffice.....

DR. PETER FAHRNEY & SONS CO.
Dept. C964-36D

2501 Washington Blvd., Chicago 12, Ill.
256 Stanley St., Winnipeg, Man., Can.

Off-season storage for gasoline engines

IN preparing the farm tractor or stationary engine for off-season storage, a standard procedure may easily be followed.

1. The tractor or engine should be thoroughly cleaned



down, carefully inspected, and completely lubricated. 2. The crankcase should be drained, the oil filter cleaned or replaced, and the crankcase filled with new oil. The engine should then be operated to allow the new oil to circulate through all the working parts, and thereby provide a film of oil during the storing period.

3. The entire cooling system should be thoroughly drained.

(Continued from page 24)

speed surfacing, but the hurrying driver may still see the contours of the old narrow, blacktop as he cuts his travel time between Vancouver and Kamloops and Williams Lake.

New Areas Opened

Yes, these developments have given new heart to dwellers of the coastal points and interior alike; and the coming surge of traffic calls for even more roads to open more territory. Boards of Trade along the north shore of the Fraser are campaigning for a second road to connect Vancouver and New Westminster with Hope.

They are not asking for something not needed. The present highway from New Westminster, via Langley, Abbotsford and Chilliwack, runs through the populous lower mainland. It has seen increasing traffic in the past few years, and will see still heavier as traffic mounts through Hope.

Not only that, but many of the large acreages of the Fraser Valley have been sub-divided into small holdings; more families, more children. So now you have what was intended to be a high-speed trunk line, changed almost overnight into a ribbon-dwelling situation with its attendant speed-reducing zones; and they will increase greatly in the next few years.

So, it is imperative that the north shore provides an alternative route from Vancouver to Hope to ease the coming burden, to open new acreages for cultivation, and serve such points as Mission City and Agassiz.

Much work has already been done between Coquitlam and Dewdney. New surfacing and modern bridges have been constructed this year. It is only a matter of time until it will be pushed through to Hope.

The drain cocks should be left open.

4. The spark plugs should be removed and some heavy engine oil placed in each cylinder. The crankshaft should be turned over several revolutions by hand to coat the cylinder walls with a film of oil.

5. The exhaust pipe should be securely covered.

6. The fuel should be drained from the fuel tank, fuel line, and carburetor. It is important that no fuel, especially gasoline be allowed to remain, as it will gradually evaporate and leave a gummy deposit. This gummy deposit may cause considerable difficulty when attempting to

start the engine the following season.

7. Pneumatic tires on the tractor should be thoroughly washed and raised so that the tractor weight is carried on blocks rather than on the rubber tires.

A few hours spent in a systematic preparation of farm tractors and stationary engines for off-season storage will save time and trouble when this equipment is returned to service. Special precautions should be taken in starting engines which have been stored, and the discussion of this problem will be taken up at a later date.

LONGER LIFE AT LOWER COST...

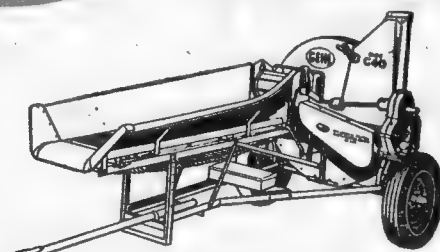
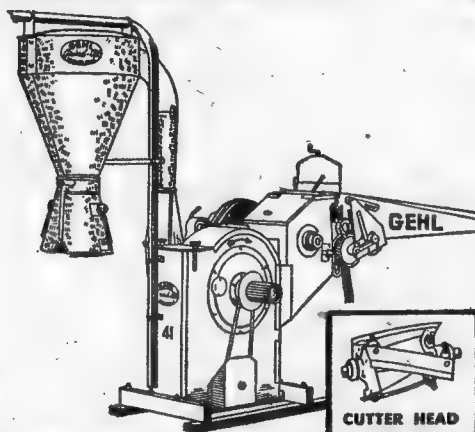
GENERAL PLASTIC CLAD

FLASHLIGHTS (with hanger ring)
PLASTIC CLAD FLASHLIGHT BATTERIES

GENERAL DRY BATTERIES OF CANADA LIMITED

RENEW YOUR SUBSCRIPTION TODAY

We Feature The Best HAMMERMILLS **GEHL** CUTTERS



DESCRIPTIVE FOLDERS AND PRICES ON GEHL EQUIPMENT ON REQUEST

ROYAL FANNING MILLS

ORDER NOW to assure Delivery!

No. 1—24" Mill	\$100.00	10' Elevator for No. 1 Mill	\$48.40
No. 2—28" Mill	\$110.00	10' Elevator for No. 2 Mill	\$49.40
No. 3—28" Mill	\$125.00	10' Elevator for No. 3 Mill	\$50.75
No. 4—30" Mill	\$165.00	10' Elevator for No. 4 Mill	\$56.65
No. 5—48" Mill	\$230.00	10' Elevator for No. 5 Mill	\$79.80



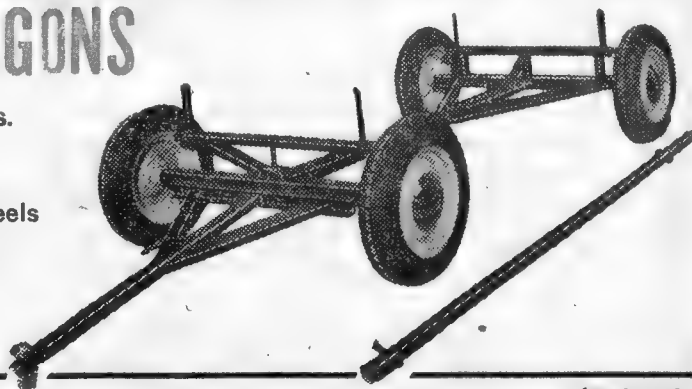
ROYAL FARM WAGONS

- ALL-STEEL CONSTRUCTION.
- HEAVY DUTY TIMKEN BEARINGS.
- DOUBLE CHANNEL AXLES.
- STUB TONGUE.
- BALL & SOCKET HITCH.

Heavy Service Spoke Type Wheels (Not as illustrated)

\$149.75

less Tires, Tubes and Horse Pole



STOCK TANKS

Heavy Duty Tanks Made of 14-Gauge Steel, Heavily Reinforced.

6'x20"x22" \$29.50
8'x20"x22" \$36.00

Write for Descriptive Folders and Our 1949 Farm Catalogue.

CALGARY FARM MACHINERY & SUPPLY CO.

507 - 2nd St. E., Calgary, Alberta

WIN LOVELY RADIO

10
ADDITIONAL
CASH
PRIZES



Hidden in drawing above are letters spelling the name of a western Canadian city. Can you find them? It's fun to try, and you may win a fine mantel radio or one of 10 cash prizes! Send as many entries as you like while the contest is still open—the whole family can try.

1st Prize Mantel Radio
2nd Prize \$15.00
3rd Prize \$10.00
Also eight prizes of \$ 5.00
FOLLOW THESE EASY RULES:

Copy the above drawing as large as possible on the inside of a Jack and Jill Cough Syrup carton, or on the inside of a Buckley's White Rub carton (or reasonable facsimiles of same). Write name of city under your drawing. In case of a tie, efforts will be judged on neatness and skill. Replies must be mailed by midnight, January 8th, 1950.

Jack and Jill Cough Syrup with Vitamin C, is made especially for kiddies. Buckley's White Rub is unequalled for quick relief of chest colds, arthritic and rheumatic pains, stiff, sore muscles and joints, etc. Start sending your entries TODAY!

W. K. BUCKLEY LIMITED, Toronto

List of winners will be announced in the February issue of this paper.

WHAT CAUSES RHEUMATISM?

IS THERE A CURE?

An interesting doctor's booklet has just been published on this intriguing subject. It also contains reliable information on diet, bathing, exercise, heat therapy, as well as danger signs of the disease. This booklet is offered FREE to sufferers. If you are interested in relief from pains and aches of Rheumatism and Arthritis, write for your FREE copy to the Educational Dept. 113, 880 Bergen Avenue, Jersey City, N.J., U.S.A.



Rail rates and fairs

To the Editor:—

Unless there is a change made on January 1st, 1950, the freight rates for exhibitors shipping to fairs will be double the 1949 rates. Since 1905 the movement of exhibition livestock on all railways has enjoyed a special reduced freight rate, namely, full tariff to the first fair, half tariff to all succeeding fairs, as long as the circuit was not broken, and home from the last show for nothing. Under the rates that will exist after January 1st, 1950, full freight rates will have to be paid to all fairs, and will also have to be paid for the return from the last show, which is generally the one farthest from the starting point. The cost of freight on the Calgary, Edmonton, Saskatoon and Regina show circuit in 1949 was \$146.91 for a load of horses; this includes full freight from Hubalta to Calgary as a start, and returning home free from Regina. Under the new 1950 schedule, the freight cost for showing a carload of horses at the same fairs will be \$406.91, and that figure is calculated from freight charges in evidence

in July, 1949. Since then rates have been boosted 8%, and the railways are endeavoring to have them increased still higher.

Knowing that exhibition freight rates were to be increased in 1950, many officials of different fairs have discussed what assistance might be given exhibitors, with a view to keeping them showing. The general opinion seems to have been that the amount of prize money should be increased; it is doubtful if this is the proper way to solve the problem. Before anything in the way of a bonus is settled, exhibition boards would do well to take exhibitors into their confidence.

Exhibitors discussed the matter pretty thoroughly whilst on the show circuit this past summer, and the general opinion among them seemed to be that a set sum for each animal shown be given to the exhibitors, rather than more prize money be offered. They contended that with increased prize money the owners of winning stock would be the only ones to benefit, and that those out of the prize money would get nothing in the way of assistance. Taking the freight tariff now existing on horses, cattle, sheep and hogs, the exhibitors thought that a

fair bonus from each exhibition would be: \$5.00 for each horse shown; \$4.00 for each cattle beast; and \$3.00 for each sheep or hog. In this way all exhibitors would receive some remuneration.

Hardy E. Salter,
Calgary, Alberta

A few kind words

To the Editor:

I am writing this letter in praise of your excellent monthly magazine. To you a letter of praise is not unusual but from me it probably is as I'm not a farmer. I was on a small farm for a few years when I was a kid, in the Fraser River Valley of British Columbia. Since then I've been miles and miles from being a farmer, I'm a machinist in a shipyard and have been for years.

About two years ago I was puttering in my garden when one of your subscription salesmen called on me. Ten years' subscription for \$1.00, it looked incredible, but I gave him a dollar and hoped for the magazine to come. It did. And it's been the best \$1.00 I ever invested. I read it from cover to cover, and look forward for the next issue. Your editorials are the best of any editorials I've ever read. I like your outspoken way of expressing your ideas, no matter who it hits.

I wish we had more editors like you, and less of the kind that are always polishing apples.

Yours for more and more and bigger circulation.

H. RITCHIE.

Victoria, B.C.

Getting rid of sparrows

To the Editor:

I have seen in different papers remedies for spraying bad weeds such as stink weed, sow thistle, etc., but there is another pest that is worth considering, that is sparrows. They are very bad around here. They go after garden raspberries, then they get into granaries and deposit filth which is not at all nice, and they are hard on other little harmless birds like canaries, wrens, etc. I think there should be some way to get rid of those pests. Years ago, back in the 1890's, and in old Ontario, there was stuff called sparrow dust that was when the old muzzle-loading shotguns were common, one could put a load of that in a gun and shoot into a flock of sparrows and wipe out a dozen or more at one shot. I don't see why this remedy could not be put up in 12-gauge shells and used successfully. Some person in Calgary might be clever enough to produce something of this sort.

—Andrew Shiell.

Brightview P.O., Alberta.

Peace On Earth

As Christmas again approaches, let us give greater emphasis to its meaning. Let us not hesitate or falter in our search for understanding, tolerance, and forgiveness.

Let us be humbly grateful for the bounty of our harvest and for the tangible fruits of our labours. Above all, let us not forget the part we play. Let us continue united in pursuit of our heritage, its meaning clear as the Star that rises slowly in the East. Let us remember always the greatest gift of all,

**"PEACE ON EARTH,
GOOD WILL TO MEN"**

UNITED GRAIN GROWERS LIMITED

EXPRESSED BY
UNITED GRAIN GROWERS
YOUR LOCAL U.G.G. ELEVATOR AGENT
AND MONEY-MAKER FEED DEALER

The British Socialists and "Sterling Imperialism"

By BEN MALKIN

A NEW and curious manifestation of imperialism has occurred in Britain during the past few weeks. Of all people, it involves such left-wingers in the Labor party as Aneurhan Bevan, minister of health, and Richard Crossman, a Member of Parliament. They believe Canada should be forced to take payment for its wheat and other commodities in sterling, rather than dollars. The sterling would then have to be spent in Britain, if it could be spent at all.

Instead of the "dollar imperialism" which is condemned in such circles in Britain, they would substitute sterling imperialism. They justify their position on the undeniable fact that Canada must meet part of



its own shortage of U.S. dollars by selling to Britain for dollars. Therefore, they argue, Britain's shortage of dollars, and consequent financial crisis, is really due to the inability of Canada to earn sufficient dollars in the U.S. If Britain stopped paying Canada in money which could be converted into U.S. currency, Britain's own dollar shortage would be greatly eased.

What these critics of Canada's economy forget is that fundamentally Canada wants neither dollars nor pounds for its exports. It wants goods. It needs machines, oil, coal, some fruits and vegetables. It needs to import steel and iron products. It needs automobiles, trucks and tractors. The U.S. is a convenient source of supply, both from the viewpoint of price, quality, design, geographical nearness and speed of delivery. Therefore Canada needs U.S. dollars to buy these things.

If these commodities could be bought with equal convenience in Britain, sterling would become as acceptable as dollars. The past few weeks have shown that there are still many in the United Kingdom, even men in the cabinet, who are blind to this fact. They think they can solve their troubles by forcing Canada to take sterling, with which it cannot buy the things it wants, in exchange for its exports. True, this would result in an improvement of Britain's financial position, and probably in the standard of living of its people. But it would also result in a deterioration in the Canadian standard of life. There is no other description for this procedure except imperialism and exploitation.

Further afield, Britain now faces other difficulties. The Communist government of China is today the actual authority ruling most of that country. Britain, as Foreign Minister Ernest Bevin has hinted, would like to extend recognition to that government. The United States is not yet ready to do so, and Britain is hesitating to act independently on so important a matter of foreign policy.

Chinese Investments

Britain's economic interests in China are different to those of the United States. A large number of British companies operating in China have their headquarters there. If these are taken over by the Communists, the whole investment is lost. The pressure on the British government to recognize the Communists as the legitimate authorities in China, and thereby, perhaps, retain the right to do business in that country, is therefore heavy.

The American situation is different. American businesses in China are mainly branch offices of companies with headquarters in the U.S. If they were cut off from the home office, the loss could be written off without disastrous consequences to the company as a whole. Therefore the pressure of Americans doing business in China is not nearly so heavily weighted in favor of recognition as is that of Britons with investments in China.

Canada favors recognition of the Communist regime, but is reluctant to take any steps on her own. The feeling is that recognition should be extended in concert with action by the U.S. and Britain. T. C. Davis, the former Canadian ambassador to China, has reported that he believes it possible to do business with the Chinese Communists. That seems to be the general feeling in Ottawa. Communist China is a fact, if an unpleasant one, just as much as Communist Russia, Poland and Czechoslovakia are facts. Sooner or later, this fact will have to be acknowledged through diplomatic recognition.



"Hungriest bunch of hired hands I ever saw."

Value Packed GIFT IDEAS FROM RIBTOR

FOR THE LADIES:—

PYREXWARE

DINNER SET

Service for eight. Colored in Pale Blue. Consists of:
8 Plates.
8 Bread-and-Butter Plates.
8 Cups and Saucers.
8 Soup Bowls.
8 Fruit Nappies.
8 Sherbert Bowls.
1 Cream and Sugar Set.
1 Platter.
1 Vegetable Bowl.
at the amazing low price of

only \$12.40 per set

LUNCHEON SET

18-Piece "National" Glassware Luncheon Set. Consists of:
4 Bread-and-Butter Plates.
4 Cups & Saucers.
4 Water Goblets.
1 Cream & Sugar Set.

Xmas Special \$1.98

BREAKFAST SET

32-Piece English China Breakfast Set. Consists of:
6 Plates.
6 Bread-and-Butter Plates.
6 Cereal Bowls.
6 Cups & Saucers.
1 Platter.
1 Serving Bowl.
Xmas Special \$6.95

Sun Glasses

R.C.A.F. style. Gold-plated Rims with clear vision; optical ground lenses. Complete with Leather Case. Reg. \$5.95.

Xmas Special \$2.98

CAMERAS

"Clix Deluxe", takes 120 film, 16 exposures to each film. An ideal Gift. Xmas Special \$1.98

— TOOL SECTION —

YOU'LL FIND THAT TOOLS ARE ALWAYS A WORTHWHILE GIFT.

ELECTRIC DRILLS

1/2" capacity, 110 volt. Complete with Jacobs' chuck. Double-grip handles and cord. A real buy at \$46.50
Only Xmas Special

SCREWDRIVER SETS

"Fullers". Set of 4 from 3 1/2" blade to 6" Blade. Unbreakable amber handles. Complete with metal case. \$2.95
Xmas Special

HIGH QUALITY TOOLS AT LOW QUALITY PRICES

"STARRETT" SQUARES

No. 13 adjustable, 6" Double Squares. Complete with built-in Level. Value \$5.25.
Xmas Special \$3.95

"STARRETT" GAUGES

No. 6 Screw Pitch Gauges. 30 pitches from 4 to 42. Regular \$5.75.
Xmas Special \$2.95

METAL WORK SCRIBERS

"Millers Falls". Knurled grips and removable tips. Value \$1.75.
Xmas Special 50c

6" PLIERS

Combination War surplus. Used, but good pliers. All have center bolt and adjusting nut. A real saving. Per Pair 25c
Xmas Special

MODEL 82 COOEY ARMY RIFLES

22 calibre. Cooley's most expensive single shot rifle. War surplus, but like new. 27" tapered steel barrel. Bolt action. Walnut stock with full pistol grip. Front and rear sights.

COMPLETE WITH SLING

\$8.95

2 1/2" INCH

FIRE HOSE

Double jacketed, rubber lined, with brass couplings. New condition. 50' lengths

REGULAR VALUE \$81.00

OUR PRICE \$37.50

EVERY GIFT A
REAL VALUE!

— SOCKET SETS —

"Husky" Socket Sets. 1/2 Square Drive. Consist of:
15 Sockets ranging from 7/16" to 1 1/2"
2 Extensions.
1 Ratchet Handle.
1 Speed Handle.
1 Flex Handle.
Complete with metal carrying case.
Xmas Special \$24.95

1/2 Square Drive "Husky" Socket Set. Consists of:
10 Sockets ranging from 7/16" to 1 1/2".
1 Flex Handle.
Complete with metal carrying case.
Xmas Special \$11.95

"HANDY MAN" 2-in-1 SOCKET SET

1/2 Hexagon Drive Set. Consists of:
8 Sockets ranging from 1/2" to 1 1/2"
1 Solid Handle.
1 Ratchet Handle.

1/2 Hexagon Drive Set. Consists of:
6 Sockets ranging from 3/16" to 1 1/2"
1 Solid Handle.

All packed together in a metal case.
A Xmas Special at only

\$3.98

MAIL YOUR ORDER TODAY!

WHEN ORDERING PLEASE REMIT FULL CASH OR \$3 DEPOSIT. SHIPPED COLLECT MONEY-BACK GUARANTEE. THOUSANDS OF OTHER BARGAINS FOR FARM, SHOP, HOME. ENQUIRIES INVITED.

RIBTOR

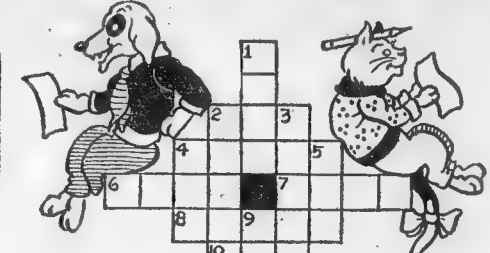
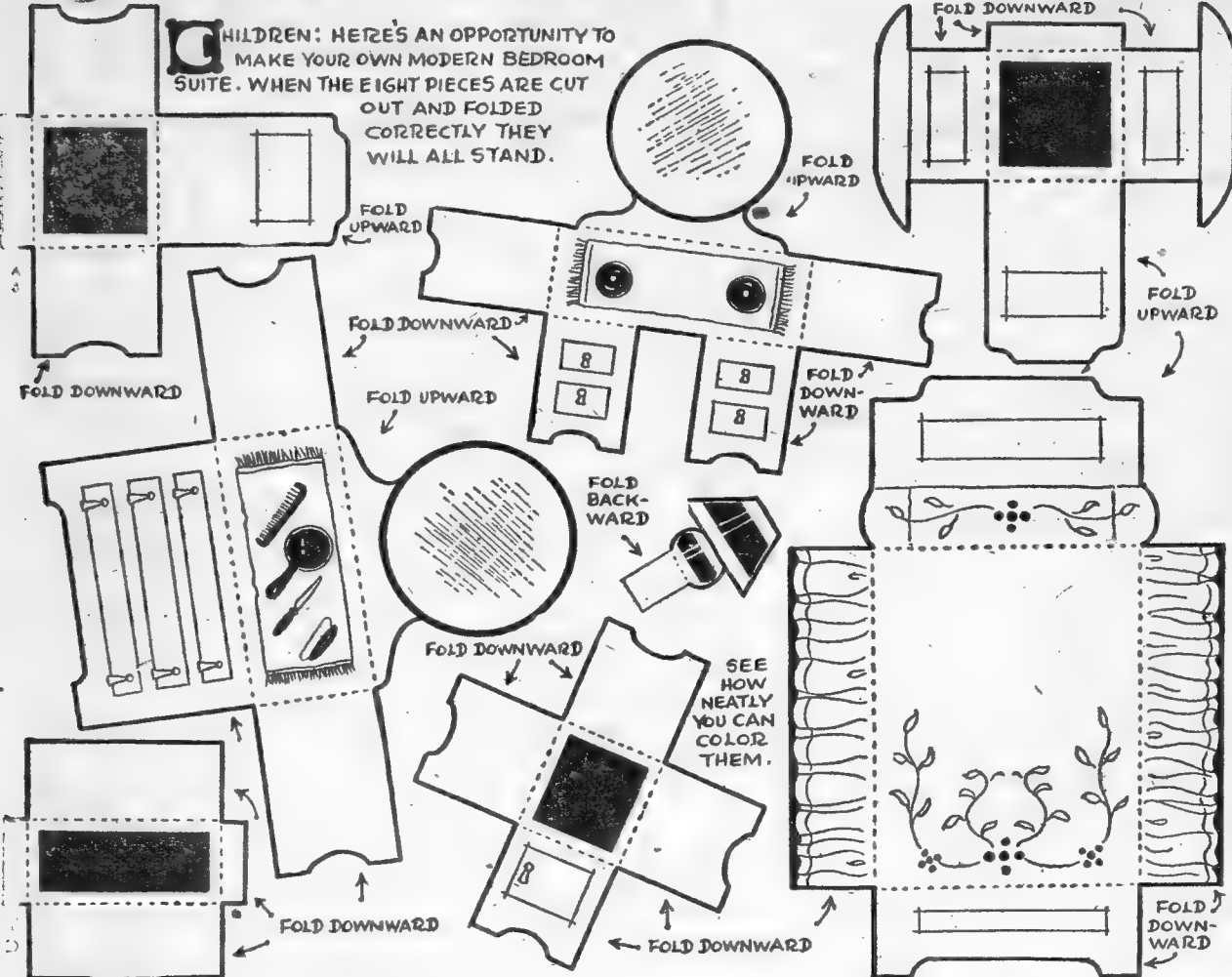
607 - 2nd STREET EAST, CALGARY, ALBERTA

RUNGLAND THE FAMILY ENTERTAINER

BY
A.W. NUGENT
THE WORLD'S
LEADING
PUZZLEMAKER

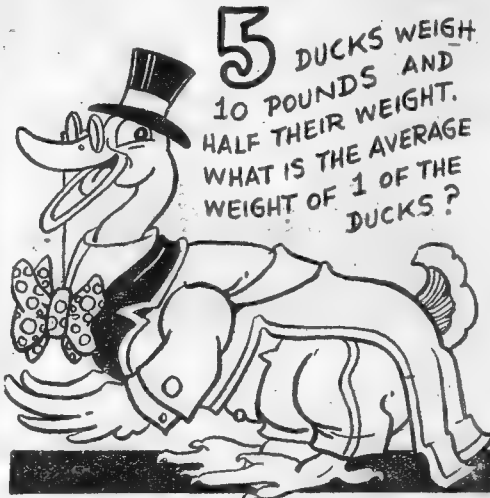


JOIN THE
DOTS AND SEE
WHAT HAPPENS.



ACROSS
2 LAND MEASURE
4 FAT
6 CLIQUE
7 NOT FAST
8 PERTAINING TO WILD ANIMALS
10 A KIND OF FISH

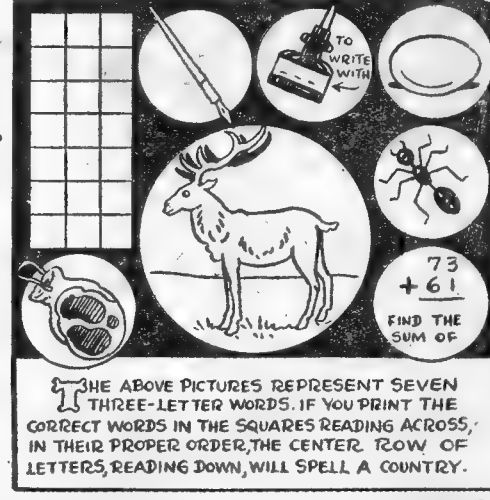
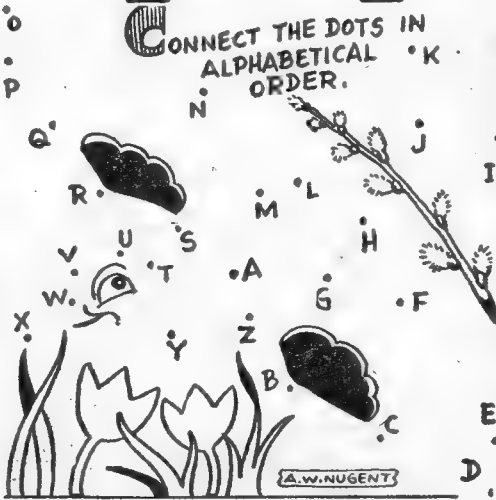
DOWN
1 CERTAIN
2 BIBLICAL CHARACTER
3 ATTEMPT
4 SIMPLETON
5 A MEASURE
9 TO SHOWER



5 DUCKS WEIGH
10 POUNDS AND
HALF THEIR WEIGHT.
WHAT IS THE AVERAGE
WEIGHT OF 1 OF THE
DUCKS?

ONE-HALF OF DORA,
ONE-THIRD OF FAY,
ONE-THIRD OF MAE,
AND ONE-HALF OF DONALD
WILL SPELL WHAT
BOY'S NAME?

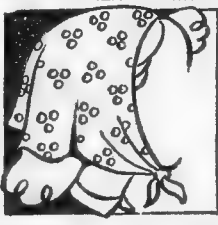
TRY TO SPELL
AN ANIMAL, A
GEM, A VEGETABLE
AND TWO FRUITS
BY USING ONLY THE
ABOVE LETTERS.



Birds of a feather

MICKEY
MAC KAW
CHALLENGES YOU
TO SPELL AT LEAST
16 BIRDS' NAMES.
START FROM
CERTAIN
LETTERS AND
MOVE TO THE NEXT
ADJOINING
LETTER IN ANY
DIRECTION.
THE
ARROWS
SHOW HOW TO
SPELL "HEN"
TO GIVE YOU
A START.

H	P	N	R	O	R	C
S	E	A	R	L	W	E
L	I	N	G	E	N	O
C	A	T	U	H	R	H
T	B	I	N	L	S	A
U	D	R	A	Y	N	W
A	R	K	E	P	I	K



SEE HOW
NEATLY
YOU CAN
COMPLETE
THESE TWO
HEADS.



TODAY'S SOLUTIONS:
LARK, OWL.
TANAGER, PENGUIN, WREN, PELICAN, EAGLE,
CROW, DRAKE, RAIL, SWAN, SPARROW, SNIPER,
BIRDS OF A FEATHER: HEN, HAWK, CATBIRD.
← THE CENTER ROW OF LETTERS SPELL ENGLAND.

DOWN-1, SURE; 2, ABNER; 3, ESSAY; 4,
OAF; 5, ELL; 9, RAIN.
10, RAY.
CROSS-WORD PUZZLE: ACROSS-2, ARE;
4, OBESSE; 6, CLAN; 7, SLOW; 8, FERAL;
DUCK WEIGHT PROBLEM:
ONE DUCK WEIGHS 4 POUNDS AND
THE FIVE DUCKS WEIGH 20 POUNDS.
BOY'S NAME: TAKE RA FROM DORA, Y FROM
FAY, M FROM MAE AND OND FROM DONALD
TO SPELL RAYMOND.
GLOWN PUZZLE: APE, PEARL, PEA, PEAR AND APPLE.

The Farm and Ranch HOUSEWIFE

Christmas in the home

By LOUISE PRICE BELL

WE are coming into the happiest season of the entire year. The spiritual significance of the day is by far the most important, as we all know. That should always be our first consideration in making Christmas plans, and in rearing our children in our Christian homes. Nothing can take the place of religious observances.

YULETIDE is a busy time in every home. Besides getting and trimming the traditional Christmas tree, hanging wreaths in the windows and putting red candles everywhere possible, there are the Christmas sweets to make. In most homes, these are made for gifts, as well as for holiday consumption . . . and no finer gift could anyone receive. Everyone appreciates presents that are the result of the donor's own handiwork. And for the people who are too busy to make cookies or marmalades in their own kitchens such goodies will be especially welcome!

Be sure to let the children help with the preparations for Christmas. They will enjoy feeling an integral part of the plans,



used again and again at Christmas, patriotic days, etc. Have steaming coffee, red tomato juice, (milk or cocoa for the youngsters) and Christmas cookies. You might also have a large plate centered with bowl of soft cheese and surrounded by crackers. Make sure that your silver is shiny, but aside from that don't fuss. Make it a simple, homey "Open House" from which many of your guests may go to the Midnight Service. Once you do this you'll find it a heart-warming way to usher the Christmas Day in.

There are many attractive and inexpensive forms of decoration. Pine sprigs, arranged in a casual manner have two pillar candles at either end of table. Beside each candle is a choir-boy, and scattered casually about are ruddy oranges and nuts, perhaps tucked in bobby-socks, with names attached. This is the type of thing that youngsters adore arranging, and you may be sure that the replacements necessary will be many. It's fun to have an arrangement like this, that is not only attractive but edible.

Associating angels with Christmas is as natural as breathing. And every mother knows that Christmas Angels are a delight to children so they'll love making some of edible materials. The angels shown here are easy to make, too. Use ice cream cones for the bodies and cut off the pointed end so that the rough surface of the cone will hold the marshmallow heads in place perfectly. Paint features on the marshmallow face with pure vegetable food coloring, making them as amusing as you wish. A dried apricot makes a fine halo, and paper wings can be attached to the cone body with Scotch tape. Stand the completed angels on a plate of whipped lemon jello or Snow pudding. This makes a good dessert and will delight the children, so is an excellent choice for a children's party. For the same purpose, dime store seals with plump oranges in the top and names written on cards, make suitable Christmas place cards.

A Christmas Tree Salad is made of fruit slices overlapped on salad greens and dramatized by a beautiful Christmas tree cut from red cranberry sauce or jelly, or green jello . . . or some of each, alternating at each place, perhaps. Cut molded jelly or jello with small tree cutter and lay

on round slice of white apple. Garnish with nut-meats put together with cream cheese. Very festive, and hearty enough for a Christmas Eve supper, with hot bread, a beverage and perhaps some Christmas cookies. Here are some excellent recipes that you might like to use.

Orange-Lemon Marmalade

- 3 cups thinly sliced oranges (3 medium-sized)
- 1 cup thinly sliced lemons (4 lemons)
- 2 cups sugar
- 2 tblsps. fresh lemon juice

Measure 2 cups of the fruit into saucepan large enough to hold three quarts (and prevent boiling over). Add sugar and boil until marmalade passes jelly test — that is when heavy drops sheet from side of spoon. This takes from 5 to 10 minutes. Add fresh lemon juice for fragrance and tartness and boil 1 minute more, then pour into hot, sterilized jars. When cool, wrap jars in attractive Christmas papers and tie with gay ribbons or cords. If several jars are given, fill in between with stuffed dates.

Christmas Sugar Cookies

- ½ cup shortening
- 1 cup sugar
- 1 egg
- 1 tsp. grated orange rind
- ¼ tsp. lemon extract
- ¼ tsp. orange extract
- 1½ cups sifted flour
- ½ tsp. salt
- 1 tsp. baking-powder

Cream shortening and sugar, add beaten egg, orange rind, lemon and orange extracts, then add sifted dry ingredients and beat until smooth. Chill until firm. Then place chilled

dough on lightly floured board and roll thin. Cut out with round, star and Christmas-tree cutters, then decorate with small pieces of candied fruits. Place on greased dish and bake at 325° F. for about 12 minutes. (4 dozen cookies).

Cranberry Orange Salad

- 2 oranges (1 for garnish)
- 1 can jellied cranberry sauce
- 1 envelope plain gelatine
- ¾ cup cold water

Put orange, rind and all, through food chopper. Crush cranberry sauce with a fork and add. Soak gelatine in cold water 2 minutes; place cup with softened gelatine in pan of boiling water and heat until dissolved. Add to cranberry-orange mixture. Mix thoroughly. Turn into 6 individual custard cups and chill until firm. Unmold on crisp lettuce and endive. With a knife cut each mold almost through into thirds. Insert 3 quarter-inch wedge-shaped slices of orange section (spoke fashion). Serve with desired salad dressing. Serves 6.

□ □ □

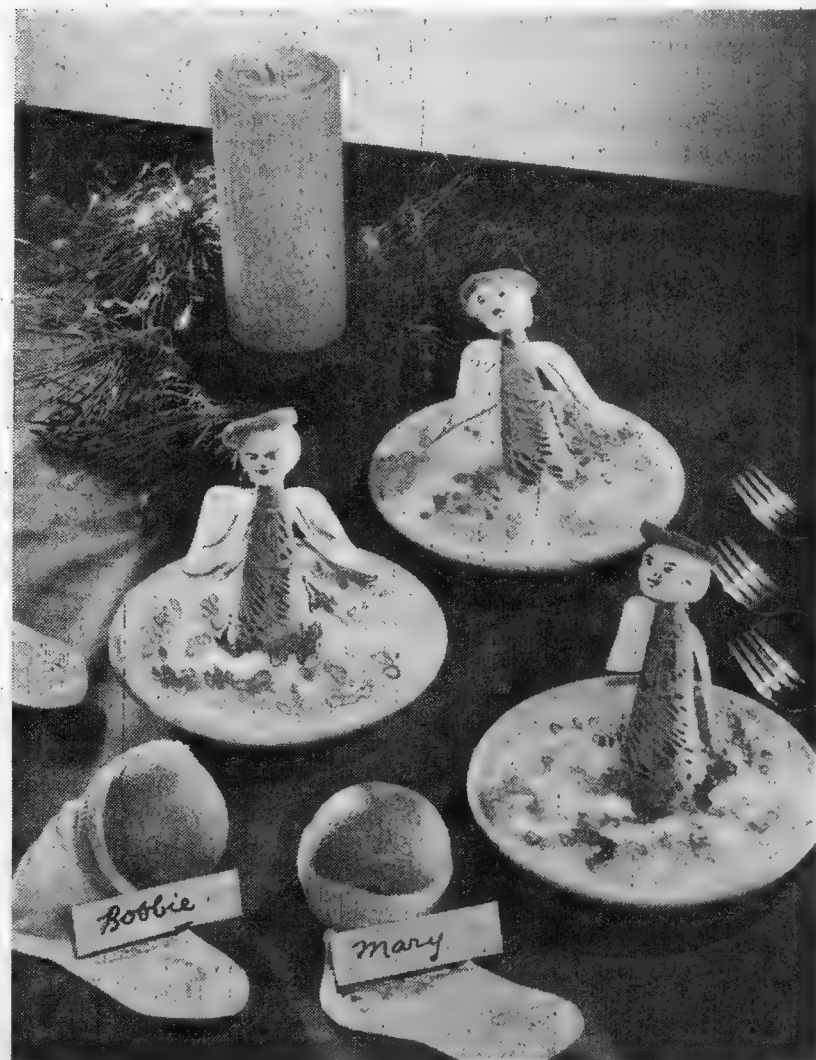
Your Own Safety

CANADA's government services aim to protect you from impure or adulterated food and drugs. You can help protect yourself by reporting to the food and drug inspector all instances of impure foods that come to your attention. You are entitled to good food. Help the government see to it that you get it. There is a food and drug inspector in your district. He is ready and willing to serve you at all times.

and it will be excellent experience for them, besides. Many Christmas cookies will keep indefinitely, so why not let your daughters spend Saturday afternoons for a few weeks before Christmas planning and making marmalades or cookies, or helping with fruit cake. They'll adore wrapping these in attractive packages for their teachers and relatives . . . and do let them make their own selections of papers and "fixings" instead of telling them what to use!

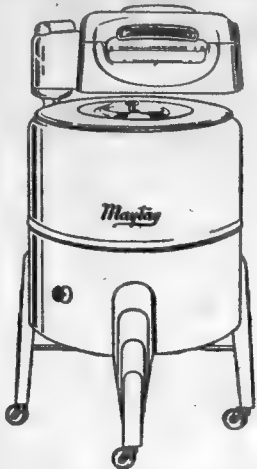
One thing that is fun to do is to establish a traditional "Open House" and have it every Christmas Eve. Don't make it a "party", but instead just a simple get-together. Call your friends the day before Christmas and ask them to drop in — with or without the children as best suits their convenience — for a Christmas cookie and cup of coffee. Be sure to ask any newcomers to your town who might be lonely in a new community as this will give them a chance to meet others. And such hospitality at the Yuletide season will be greatly appreciated.

Put red candles in your candle holders, on dining-room table, lay some green around the base, and put piles of red and green paper napkins handy. A length of red cambric looks very effective on a table and can be



Angels are easy to make; youngsters love oranges in stockings.

A MERRY XMAS with MAYTAG



Your Gift will be remembered by CAREFREE WASHDAYS throughout the year!

110 A.C. - 32 D.C. Gas Washers.
New and Rebuilt.

Alberta Appliance Company Limited

Maytag Sales & Service
329A - 7th Avenue West,
Calgary, Alta. Phone M 2545

Don't overlook Scotch Tape



By LOUISE PRICE BELL

IN wrapping Christmas gifts, do some experimenting this year with inexpensive Scotch tape. It comes in a bewilderingly wide array of colors and patterns, is easy to use, costs very little. And with it, you can work out some very original packages. Look at the packages shown; the lettering "Dad" is done by cutting short lengths of holly Scotch tape and applying it to a plain green box. Any name may be created in the same simple way. The corner decorations are very narrow strips applied thus to give a "finish". Above, at left, the entire decoration was done with tiny bits of red and green tape ... and isn't it effective? At the right, a white box was treated with red-and-green striped tape in a diagonal fashion — something so simple the youngest children could do it! On all of the boxes the decorations are made with Scotch tape, so give you an inkling of what you may do when once you start wrapping your gifts for under the tree.

ways wears its very best dress of dark, glossy leaves with red berries hanging in warm clusters which are to make countless homes joyful and resplendent with color, tradition and memory. It nudges its owners with the remembrance of their distant friends, and long may it continue to do so.

For my part I am thankful that we live in a kindly, tolerant land where simple truths and good faith exist, in spite of the strife and ruthlessness that exist in many parts of the world today, and where there will be no Christmas spirit this year.

□ □ □

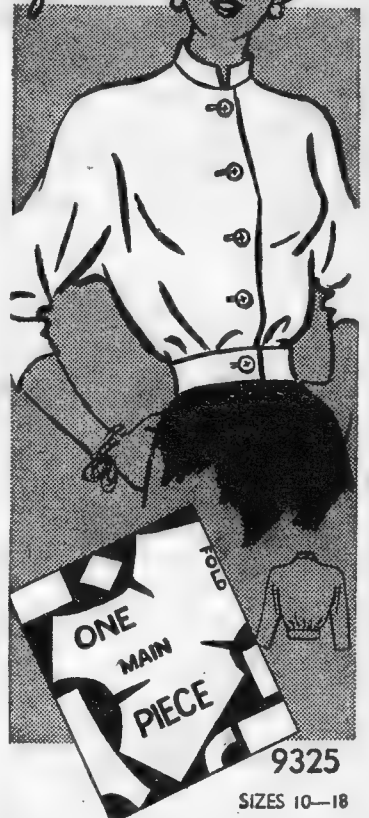
Your Baby's Health

YOUR baby needs constant protection to prevent irritating and dangerous infections such as diaper rash. To avoid this condition, diapers should be changed frequently, washed thoroughly in a pure soap, rinsed several times in clear water and, if possible, dried in the sunshine.

□ □ □

One-Yard Magic

Only
One yd
of 54"



SIZES 10-18

ONE YARD of 54-inch fabric! A little time! That's all you need — plus findings for this marvelous new blouse. And see the diagram — just ONE main piece!

Pattern 9325 comes in Misses' sizes 10, 12, 14, 16, 18. Blouse takes ONE YARD 54-inch fabric.

This easy-to-use pattern gives perfect fit. Complete, illustrated Sew Chart shows you every step.

Send TWENTY-FIVE CENTS (25c) in coins (stamps cannot be accepted) for this pattern. Print plainly SIZE, NAME, ADDRESS, STYLE NUMBER.

Send your order to Farm and Ranch Review, Pattern Department, Calgary, Alta.

Allow ten days for orders to be filled.

Window Glass, Any Size or Quantity

THE BENNETT GLASS CO. LTD.

M 1778 228 - 7th Ave. East, Calgary

Thousands of Women and Girls Report Grand Relief With

ORANGE LILY

USED FOR 45 YEARS

Safe Soothing

Send 10c for Sample and Booklet
MRS. LYDIA W. LADD
Box 191, Windsor, Ont., Dept. 8K

ROGERS' GOLDEN SYRUP



Made From Pure Cane Sugar

A quick energy food good to taste and good for you.

Write for a free Recipe Book. B.C. Sugar Refining Co. Ltd., Vancouver, B.C.

Country Diary

ONCE again, the close of another year! Prairie dwellers have the advantage of knowing December as a beautiful month, beautiful in an austerity of clean, shining whiteness that is not known on streets of concrete and traffic, clanging noises and hordes of hurrying beings possessed by a restless, nervous tension.

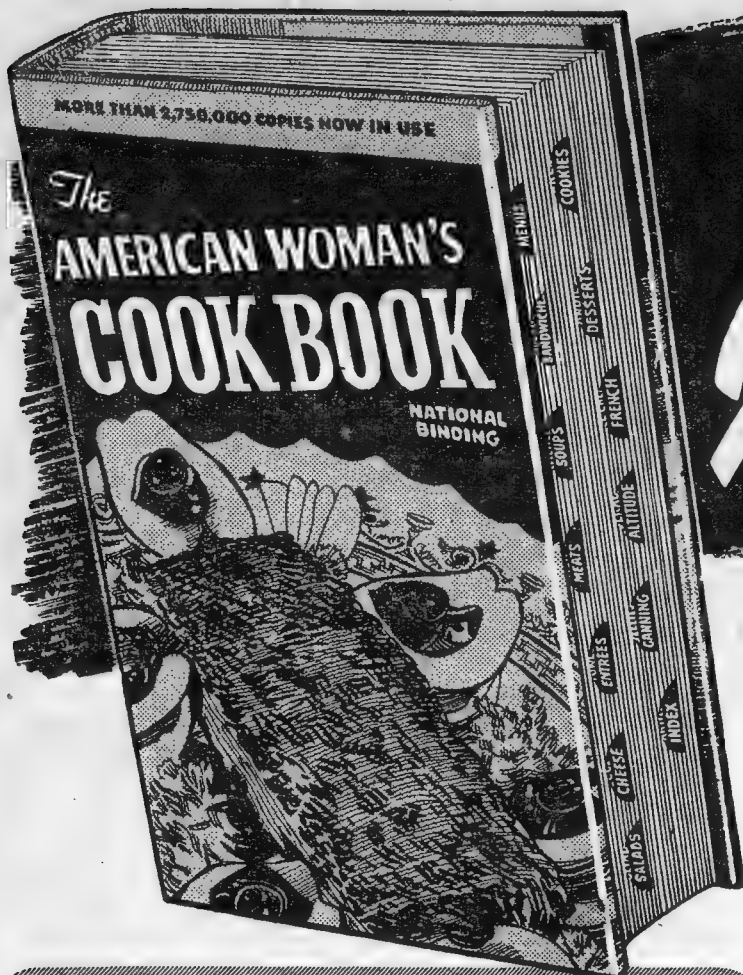
On a December morning as life begins to stir, the black sky twinkles with a million or so of white stars over the farm homes. Venus in the east is the brightest one, Sirius shines blue and Mars, appropriately, burns red. Smoke of early fires rises in the light of the crisp dawn like curled plumes, bacon (the home-grown variety, not out of a cellophane package) fries in skillets, and coffee bubbles. Frost ferns on windows disappear in the heat of the stove.

Outside, December magic has been at work. Crystal upon geometric crystal has fallen and now sunlight slants upon blue-shaded snow. The old fields sparkle and glow, trees are garlanded and every bush wears glittering diamonds. The barnyard has lost its sombreness, the windmill fan is silver in the sun and the fence wires hum a pretty little fugue. Even the posts are regal things in their white crowns and all the sorry

man-made wrecks are hidden under the faultless-fitting blanket. There are sure to be many such mornings in December—I cannot count the number of times I have looked on these wonders. And in the early evening, the last pink sky of sunset reveals the exquisite dark tracery of bare trees against it. Lights come on in windows, wood-smoke again rises as the last meal of the day is prepared, cattle bawl, lighted lanterns flick here and there, and another December day draws to its close.

Usually winter saves its worst storms till January, which is just as well, with Christmas coming round the corner in full view of the calendar. And although it is in itself not a thing of the weather, albeit Christmas is inseparable in the mind of city and country-dweller alike from sleighs and tinkling bells (now alas, almost out of date) and a sparkling white countryside. Nearly all people prefer snow scenes for their greeting cards, though a good many of them never trod a country lane in winter.

There are other parts of our Dominion where Christmas means evergreens, ivy and holly. Some of us have never seen a holly tree, proud and glowing in its winter beauty. A fastidious character has the holly. It al-



YOURS at 1/2 PRICE!

**QUAKER FLOUR BRINGS
YOU THIS AMAZING SAVING!**

Store Price \$3.75

Yours ^{\$}**1.88**
for only

and 1 Quaker Flour Guarantee Certificate
(or proof of purchase from your dealer)

5,000 RECIPES!

and helpful suggestions

824 Pages

230 Illustrations

(including 32 exquisite Full Color Pages)

A DOZEN COOK BOOKS IN ONE!

Here is the most complete, most amazingly practical Cook Book ever published. Tells everything you want to know about buying, handling and preparing foods for your family and friends. All about entertaining—meal planning and serving—menus for every occasion—time and money-saving ideas galore! Take advantage of this sensational offer now!

LOOK AT THESE FEATURES

- ✓ Thumb-Indexed for Quick Reference
- ✓ Hundreds of Photographs—many in Color
- ✓ Beautiful Lifetime Binding
- ✓ Health-building Menus — Protective Foods
- ✓ Tables of Vitamins and Calories
- ✓ Proper Table Setting and Serving
- ✓ Ideas for Entertainment
- ✓ Foods and Beverages for Invalids
- ✓ Herbs, Spices, Extracts, Flavors
- ✓ Canning, Preserving and Jelly Making
- ✓ Economical Buying, Accurate Measuring, Temperature Charts
- ✓ Complete Alphabetical Cross Index

HERE'S HOW TO GET YOUR COPY!

Buy a Bag of Quaker All-Purpose Flour Today. In it you'll find a Quaker Flour Guarantee Certificate. Send this certificate (or a proof of purchase from your dealer) with your name and address and \$1.88 in cash or money order to

Quaker Flour Cook Book Offer,
Peterborough, Ont.

Your cook book will be sent to you promptly. It is understood that if you are not entirely satisfied you may return the book within 10 days and your money will be refunded in full.



QUAKER FLOUR IS GOOD FOR EVERY BAKING NEED

With smooth, even-textured Quaker Flour you can bake the finest bread and rolls your family ever tasted... you can bake fluffy, light-as-a-feather cakes and flaky, tender pie crusts that simply melt in your mouth. Quaker Flour is *unconditionally* guaranteed.



QUAKER ALL-PURPOSE FLOUR



If you bake at home—
these are easy to make

It's bound to be a "Good Morning"—when you serve delicious, hot-and-fragrant Cinnamon Buns for breakfast. They'll win you plenty of praise... made with Fleischmann's Royal Fast Rising Dry Yeast!

Full-Strength—Goes Right to Work
Modern Fleischmann's Royal Fast Rising Dry Yeast keeps for weeks and weeks right on your pantry shelf. It's fast—it's ACTIVE. All you do is:

1. In a small amount (usually specified) of lukewarm water, dissolve

thoroughly 1 teaspoon sugar for each envelope of yeast.

2. Sprinkle with dry yeast. Let stand 10 minutes.
3. THEN stir well. (The water used with the yeast counts as part of the total liquid called for in your recipe.)

Next time you bake, insist on Fleischmann's Royal Fast Rising Dry Yeast. Keep several weeks' supply on hand. There's nothing like it for delicious soft-textured breads, rolls, dessert breads—such as all the family loves!

CINNAMON BUNS

Makes 2½ dozen

Measure into large bowl

1 cup lukewarm water
2 teaspoons granulated sugar
and stir until sugar is dissolved.
Sprinkle with contents of
2 envelopes Fleischmann's Royal
Fast Rising Dry Yeast

Let stand 10 minutes, THEN stir well.

In the meantime, scald
1 cup milk

Remove from heat and stir in
½ cup granulated sugar
1¼ teaspoons salt
6 tablespoons shortening

Cool to lukewarm and add to yeast mixture;
Stir in 2 well-beaten eggs

Stir in 3 cups once-sifted bread flour
and beat until smooth; work in
3 cups more once-sifted bread flour

Turn out on lightly-floured board and knead dough lightly until smooth and elastic. Place in greased bowl, brush top with melted butter or shortening. Cover and set dough in warm place, free from draught. Let rise until doubled in bulk. While dough is rising, combine

1½ cups brown sugar
(lightly pressed down)
3 teaspoons ground cinnamon
1 cup washed and dried seedless raisins

Punch down dough and divide into 2 equal portions; form into smooth balls. Roll each piece into an oblong ¼-inch thick and 16 inches long; loosen dough. Brush with melted butter or margarine. Sprinkle with raisin mixture. Beginning at a long edge, roll up each piece loosely, like a jelly roll. Cut into 1-inch slices. Place just touching each other, a cut-side up, in greased 7-inch round layer-cake pans (or other shallow pans). Grease tops. Cover and let rise until doubled in bulk. Bake in moderate oven 350°, 20-25 minutes. Serve hot, or reheated.



Her First Christmas



Health Notes

Those precious teeth

By the time your baby is 30 months old he will have acquired most, if not all, of his first set of teeth. These 20 teeth are mighty precious possessions and should be protected by frequent brushings and regular visits to the dentist. Failure to take care of these foundation teeth may result in crooked, irregular dental troubles in later years.

Keeping the Goodness

NUTRITIONISTS tell us that to bring all the beauty and goodness of vegetables to the table they should be cooked only until tender. They should be cooked in a covered pan in the smallest possible amount of boiling water in the shortest possible time. Long cooking and exposure to air destroys valuable vitamin C in your food. Valuable minerals are thrown away when the cooking water goes down the drain. Your family—not the sink—needs these minerals.

Finding vitamin "D"

Vitamin D is necessary for the development of strong bones and teeth in children. What you might not have heard is that a child's normal diet does not contain sufficient vitamin D to supply his needs. Vitamin D is available in cheap, easy-to-take preparations. It should be given every child throughout the growing years.

For work or play

Girls and women should learn to distinguish between "work" shoes and "play" shoes. For standing all day the feet need firm, comfortable support and a low heel, otherwise the balance of the whole body is upset and backache may be caused. Spike heels should be saved for dancing. Your feet are the most abused part of your body. Treat them to well-fitting, comfortable shoes.

The Dishpan Philosopher

I do admire the tuneful bards who pen our cheerful Christmas cards. With good old words like joy and mirth, and peace and love and home and hearth, friendship and happiness and cheer, they weave new verses every year, and stir response in every heart—a very happy kind of art. I guess the Christmas artists too have got a bit of credit due. Their Santas, lanterns, bells and dogs, and icicles and red Yule logs, are all delightful Christmas fare which friends with friends delight to share. Although, no doubt, poor postmen quail before the flood of Christmas mail.

With cards I get and cards I send each Christmas happy hours I spend. And in the months that lie between they serve to keep old memories green. With this I'll end my little scrawl—A MERRY CHRISTMAS TO YOU ALL.

I believe in Santa Claus

By ARKLEY LUCILLE O'FARRELL

SHE wore a pinafore, and big ribbon bows on her pigtails. She was "The Old Maid", very skinny, and very prim and not quite eight. And the subject of Santa Claus had suddenly become very important. Not just because it was so close to Christmas. Oh, dear, no! It was important because The Old Maid decided to find out the truth!

Now, as a matter of fact, mama had always told them the truth about Santa Claus. She remembered her own heart-break when as a disillusioned little Santa-believer she shed such bitter tears on discovering — well, on discovering!

So she had always told The Old Maid and the brothers the truth about Santa Claus. And Christmas had always been very nice anyway. But this year The Old Maid began to wonder why there had been so many stories and songs and poems written about Santa if there wasn't any such person.

It wasn't logical. You don't write and sing about somebody that isn't. "There MUST be SOMEBODY," she declared to mama. "There would not be all that about him if there isn't any Santa. Let's find out for SURE!"

"But how?" asked mama.

"Well, when we go to the Christmas Tree at the school Christmas Eve we kids could hang up our stockings before we go. We never come home until long after midnight so there's plenty of time for a real Santa to fill them. If they are filled, we'll know there is a Santa for sure. If they are empty we'll know there isn't." The Old Maid was very solemn about it all.

"All right," said mama gravely, "but you mustn't be disappointed if the stockings are empty."

The plan was discussed at length that evening at the supper table. The brothers were only mildly interested, one being just old enough to accept anything, the other too young to care much. Papa, however, was a

different matter. He very seriously doubted the myth about Santa and would be glad to have it proved one way or the other once and for all.

The children worked very hard making chains of colored paper rings and little doo-dads of tinfoil to hang around the bulge at the end of the living-room, which was the chimney, no less. They always decorated the chimney every Christmas but this year was more significant, since the place might be visited by the REAL Santa!

"You've always filled our stockings yourselves, you and papa, so maybe that's why he never came here," The Old Maid reasoned as she pasted rings — and herself — with flour paste. "Maybe," agreed mama.

Christmas Eve finally came, as Christmas Eves have a habit of doing, and everybody got dressed in their best for the Christmas Tree. Just at early dark, papa drove the team and bob-sled up in front of the door, and they all climbed in, mama, The Old Maid, and the brothers.

"Hold these lines a minute while I go into the house to light my pipe," papa said to mama, "I haven't a match."

So mama took the lines and talked to the horses to quiet them, and the children waited impatiently for papa to fill his pipe. Such a long time it took! But finally they were off. The snow crackled under the sled runners, the bells on the horses jingled, and one by one the stars peeped out of the sky to see what it was all about.

The excitement of speaking pieces and singing songs, of seeing a Santa Claus who looked strangely like fat Mr. Jones who lived near the school — handy, like! — and the glory of the big Christmas tree with its flickering candles which some one with a pail of water and a sponge watched carefully, all quite drove any thoughts of the Great Experiment from the children's minds. In fact, worn and weary, the brothers actually fell asleep on the way home, experiment or no experiment.

Not so The Old Maid. Snug in the bottom of the sled, she blinked wisely at the stars that blinked right back at her but told her nothing. Not a single thing!

It was wonderful to come into the warm house out of the cold, and even more wonderful to just FEEL that Santa had been there, in that very room just a little while before, perhaps. In the dark, The Old Maid stumbled across to the chimney. She groped for the stockings she and the brothers had hung there before they went to the Christmas Tree. She found them, and she squealed excitedly, "They're filled! Mama, they're filled!"

"Well, I declare!" said mama. She had the lamp lit by now and there, sure enough, in its glow three black stockings bulged under the chimney!

"I KNEW there was something in that story about Santa Claus!" said The Old Maid triumphantly.

And there followed such days of magic as she had never known in all her eight long years of living. Playing with toys Santa's very own hands had touched, had even fashioned, and PUT INTO HER STOCKING HIMSELF!

So The Old Maid lived in her magic world alone until one day — "How much did you pay for these checkers, Papa?" asked a brother casually from the floor where he was playing with them, not according to rules.

"Oh, I don't remember: thirty-five cents, I think," replied papa absently. And the magic crackled dangerously

as The Old Maid pounced. "Then you DID buy these things yourself, after all!" she cried. And papa looked fit to be tied until he saw mama doubled up with laughter over her sewing.

For a moment The Old Maid stood in her shattered magic world, but for a moment only. Her lively imagination was stirred. How had those stockings got filled?

"I filled them during the day when you were all outside playing," mama laughingly explained. "Then you children hung up the empty maters to them. Remember when papa went into the house to fill his pipe? He switched the stockings, hanging up the filled ones, and hiding the others! That's how you came to find them filled." Then she added apologetically, "We were afraid you'd be so disappointed if you found them empty."

The Old Maid smiled happily. She had had her magic. And she had love that couldn't bear to see her disappointed. So ever since that day —

Ever since that day I've believed in Santa Claus! Well, why not? You see, I WAS THE OLD MAID!

For Bad Cough Mix This Splendid Recipe, at Home

Needs No Cooking! Big Savings!

You'll be pleasantly surprised when you make up this easily prepared mixture and try it for a distressing cough. It is no trouble to mix, and costs but a trifle, yet it can be depended upon to give quick relief.

Make a syrup by stirring 2 cups of granulated sugar and 1 cup of water for a few moments until dissolved. No cooking needed. (Or you can use corn syrup or liquid honey, instead of sugar syrup.) Get a 2½ ounce bottle of Pinex from any druggist, put it into a 16 ounce bottle and fill up with your syrup. The 16 ounces thus made gives you four times as much cough medicine for your money, and is a very effective relief for coughs. Keeps perfectly and tastes fine.

This splendid mixture has a three-fold action. It soothes the irritated membranes, loosens the phlegm and helps to clear the air passages. Thus it makes breathing easy, and lets you get restful sleep.

Pinex is a special compound of proven ingredients, in concentrated form, well known as a soothing agent for winter coughs. Money refunded if it does not please you in every way.

"You can't beat that Coffee!"

HANDY HINTS

If you will brush your lower pie crust with egg white before filling, the crust will not become soggy during the baking of fruit and custard pies.

□ □ □

To keep the bottom of an iron slick, run it over waxed paper while the iron is hot.

□ □ □

When heating milk, have the pan covered. The cover keeps the milk dark while heating, and this helps save the important B-vitamin.

□ □ □

Never use cleaning fluids on plastics or on rubberized fabrics.

By soaking them overnight in fruit juices, candied fruits or raisins may be softened for use in cakes. Drain them well before using.

□ □ □

Give children empty wooden thread-spools for blowing soap bubbles. They do not break as easily as clay pipes.

□ □ □

To prevent pictures from marking up the wall, place a thumb-tack on the back of the frame at the lower corners.

Delicious served with salad are bread slices cut with a doughnut cutter, brushed with butter, and toasted in the oven.

□ □ □

Jelly which has become sugary can be used to sweeten and flavor dried prunes, peaches, or other fruits.

□ □ □

To add flavor and to avoid leaving onion pieces in food, cut an onion into bits and place in a tea ball kept for that purpose. Remove tea ball when desired flavor is reached.

Candles can be made drip-proof by soaking them in a strong salt-water solution a few hours. Do not wipe them after removing from solution.

□ □ □

Preshrinking rickrack by dipping and drying it right on the card will prevent it from puckering the garment when the latter is first laundered.

□ □ □

Glue spots can be removed from fabric by soaking the spots with hot water and soap and then wiping dry with a clean cloth. Repeat this operation as often as necessary to remove the glue spot from the fabric.

THE WORLD'S BEST WHEAT

Yes, from the world-famed Western Canada's wheatlands, home of over 100,000 Pool farmers, comes the superb hard milling wheat, which,

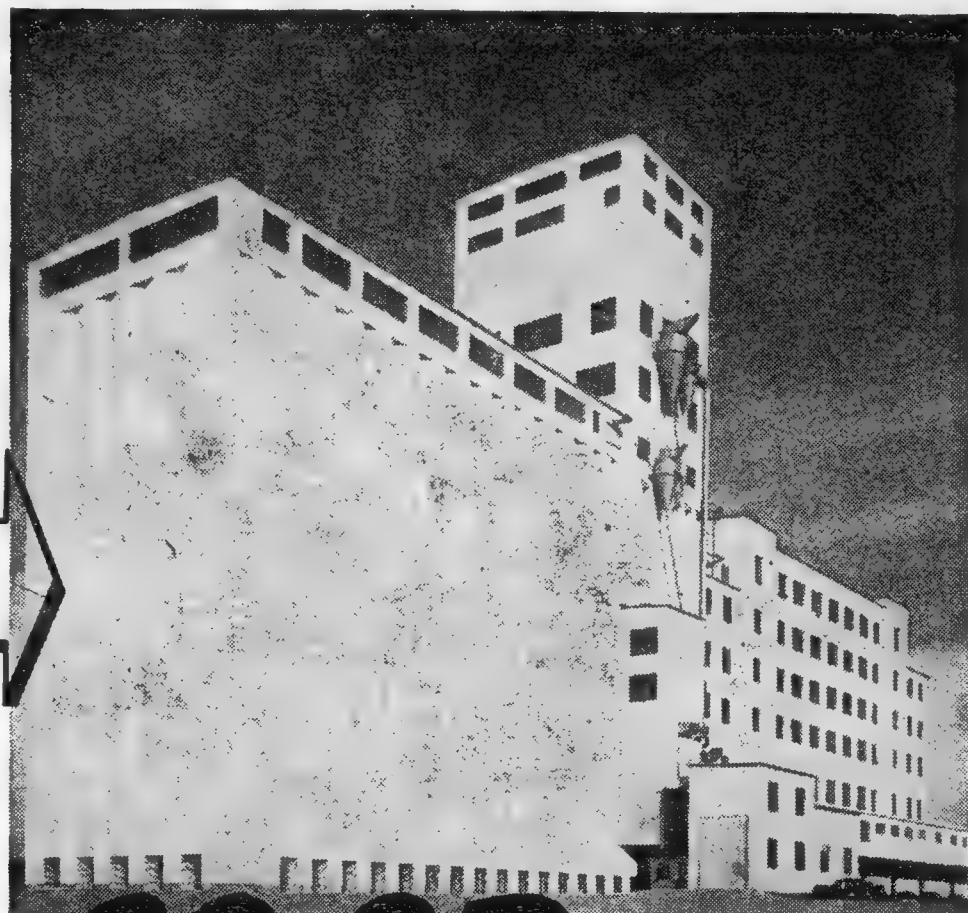
Plus THE WORLD'S MOST MODERN MILL

now brings you an amazingly better flour! At last, through the new Saskatchewan Co-operative Producers' flour mill, in Saskatoon, a miracle of modern milling science and technical skill, Western Canada's own wheat is now processed, by the Saskatchewan Wheat Pool, to

PRODUCE THE WORLD'S BEST FLOUR!

the NEW

POOL CO-OP FLOUR



You've got a new baking thrill in store for you when you try the wonderful new POOL CO-OP FLOUR! It's rich—it's fine—it's truly an ALL PURPOSE FLOUR, with which you can bake light, even textured good-tasting BREAD... delicious, feather-light CAKES crisp, flaky, melt-in-the-mouth PASTRY... all from one super-fine, brand, POOL CO-OP FLOUR! Get a bag of POOL CO-OP FLOUR today... bake with it... taste the results... and you'll be convinced! It's GUARANTEED... it's available in Alberta!

BEST FOR BREAD - BEST FOR PASTRY - BEST FOR CAKES

AVAILABLE IN 98-49-24 and 5-pound BAGS

WPW. L.

A NEW ALL-PURPOSE FLOUR MILLED BY SASKATCHEWAN CO-OPERATIVE PRODUCERS LTD.

Handmade Yuletide Gifts

By ANN BARRETT

No one has yet invented anything that quite takes the place of the handmade gift for Christmas remembrance. That personal something that has been created and treasured for somebody "special" whom we love, is indeed hard to excel!

It is the answer to that important question, "What shall we give to Mom, Dad, Sister, Brother, Granny and So-and-So?" And for everyone of our very dear ones, let us take out our nimble knitting needles and crafty crochet hooks and work along a plan this season to turn out some wonderful and useful things as gifts.

Needles Click

With needles clicking we've tried to include the whole family in our selection, first starting off with Mom, how about a lacy bed jacket? Of course that would also be appropriate for the friend who is laid up temporarily in bed, and who loves to sit up and read. A grand gift for baby sister would be a pastel woollen blanket, or, a crochet baby set of booties, jacket and bonnet. For sister, there are knitted or crocheted slippers with ankle straps or ribbon run through the top for snug fitting. They are appropriate for after ski-ing or skating, or, for just plain cold feet when winter winds come howling around. Then there is the woollen scarf shawl for Granny that can be so cosy and warm.

Some of the jaunty new styles in Berets could be knitted for a school

with embroidered bows and flowers for a "Small Fry's" gift, and a draw-string sleeper is easy to make, also bibs, band, kimono and slip.

Save the Pieces

For those of us who have been careful not to throw away any articles that might be useful in some new capacity, we can dig down in the old trunk for some old materials to make a new hooked-rug to throw before the family hearth for Christmas morning. Old fabrics seem to retain their true color and pattern in the passing of time, and can be reproduced into most artistic perceptions of indescribable charm for floor mats for the home.

Characteristic of the many designs to hook, are the central medallions of blossoms and wide elaborate borders on a rug of this type. Sometimes the medallion is silhouetted against an ivory background and surrounded by a black border with corner flower motifs, or, a simple nosegay motif which repeats itself along the edge to form a border.

Sturdy Rugs

Orderliness, thrift, and love of modest home decoration are clearly typified in a design of simple squares of braided cloth, homespun yarn and quaint stitchery, that will be effective for any homestead, and can be trod upon by generations of sturdy feet. A pair of such rugs can be used on either side of a four-poster bed with a matching coverlet of homespun.

The quality of a sturdy hooked rug depends not so much on the width of the strips that are hooked in, as on the closeness of the hooking. When much burlap shows on the back, the rug will not be durable, for as it wears it will flatten out to paper. Loops will either pull out, if unclipped, or possibly fall out, if they are clipped. Another point to watch, is to hook your rug to within two inches of the edge of the burlap, and then turn the hem over and stitch.

Merry Christmas

We hope the above suggestions will prove the makings for a wonderful Christmas to all, and that they may be the most popular and useful gifts received this Yuletide Season!

Everyone of the articles are simple and easy to make, and it is sure to be lots of fun planning what gifts to make. There's no limit to their possibilities — you can make them simple or elaborate as your desire and ability dictates, and also Ring Out Your Personal Message, "Merry Christmas!"



"Hubert, must you try and raise your own suits, too?"

Finest Quality—
Easy to Use

"SALADA" TEA BAGS



BEST AT ANY PRICE!

WINDOW GLASS :: Any Size or Quantity

THE BENNETT GLASS CO. LTD.

M 1778

228 - 7th Avenue East,

CALGARY

ASK FOR

Burns
Pantry-Shelf Canned Meats

TASTY - NUTRITIOUS - WHOLESOME



**KEEP A SUPPLY ON HAND FOR
QUICK SNACKS and REGULAR MEALS**

Over 26 Varieties to Choose From

AT ALL GROCERS AND MEAT STORES



girl friend with a matching knitted bag. And you can think up some interesting apron surprises with fetching ways of trimming with applied patch-work designs.

The always pleasing rick-rack braid can doll up an apron to make the working hours gayer and make the wearer more attractive, even when bending over a hot stove or whipping up a stiff batter.

Something Useful

Useful gifts for the home are something that the homemaker appreciates, and we can think of nothing more welcome to beautify the kitchen, than hand decorated and stencilled salt and pepper boxes, trays, coffee and tea pots, tables and chairs or "what-nots" that can be combined at a minimum cost.

If Dad is a hard one to suit, when it comes to the annual Christmas necktie, here's a chance to give him something different. . . a tie that you have made yourself! You can get wonderful materials by the yard, and it is quite easy to do a professional job that will tie beautifully and hold its shape indefinitely.

The little sister will love a rag doll with all the trimmings, including a wardrobe of a dress, bonnet, petticoat, quaint pantaloons and apron. And for the big sister, how about some matching closet accessories that will complement her room, or, for her very own dressing table, there's nothing smarter than a gay matched set of pin cushion, tray, picture frame and box? For the closet accessories, which we spoke of, some gay colored chintz will make an attractive shoe-bag as well as a dress shoulder cover.

All in the spirit of Christmas and babyhood, you can pretty-up a layette

Prize Pictures

We have been snowed in by offerings of pictures by our readers. We have been forced to return scores of good ones simply because we had no space for them.

For the benefit of our camera fans here are some useful hints:

1. New fallen snow does not reproduce. It is a liability except in rare cases. So is hoar frost.

2. To be eligible for a \$5 or \$3 prize, a picture **MUST** tell a story. The characters must be working or playing **NATURALLY**. We don't want artificial poses. We don't want snapshots of children staring at the camera.

3. Above all, pictures must be in **SHARP FOCUS** and be **contrasty**. Dull or fuzzy photos cannot be reproduced.

LET'S ASK AUNT SAL

When you're stuck with household how's or why's,

Talk it over with a friend:

Or write a letter to Aunt Sal,

And friendly help she'll send.

AS you all know, I'm sure, these columns have to be prepared well ahead of the date of publication and during November I got stuck away from the home base so did not have access to my files, therefore I shall not be able to mention many of the writers by their initials. However, before leaving home on this trip I replied to every letter personally so all inquiring friends have heard from me at least.

QUESTION:—In the October issue Mrs. W. R., Tiger Lily, Alta., asked for a recipe for homemade cheese. Remember?

ANSWER:—Since that date ten kind friends of this department sent in their recipes for cheese. Everyone of them sounded downright good, and I wish we had the room to put them all in print for your perusal. I chose several recipes from the collection and forwarded them to Mrs. W. R. She can take her pick. If any of the rest of you would like any of these recipes, remember a stamped, self-

addressed envelope mailed to me will bring it to you.

QUESTION:—Time and again I receive inquiries about good cook books compiled by women's groups that I can recommend.

ANSWER:—During the past month another such fine cooking guide was sent to me. I studied it carefully and tried out a number of its mouth-watering recipes before putting an enthusiastic O.K. on it. So here it is, friends. **COOK BOOK BY THE HANNA UNITED CHURCH.** It is priced at \$1.00, and it is a very attractive edition to grace any home cook's culinary shelf. There is the cunningest original design on the front cover and blank pages interspaced throughout the book allow room for pasting of clippings. Address your orders to **MRS. MARJORIE ARGUE, HANNA, ALTA.**

QUESTION:—Why does my homemade soap "separate"? And what can I do about it?

ANSWER:—Like the former "cheese" question I admit I've had no experience with making soap, but a friend of mine who has, tells me this lady "beat" her soap too much to make it separate. What do the rest of you soap-makers think about it? Your help is solicited.

QUESTION:—Another question touching on the same subject runs thus: My soap looks and feels fine and makes a generous suds but why does a film a grease rise to the surface of the water when we use this soap?

ANSWER:—Calling all soap makers! I shall be delighted to hear from you on both of the above queries relating to this old-time art of soap making.

QUESTION:—I soaked a good damask tablecloth in a brand new tin pail filled with mild bleach. (1) Why did rust stains form on it? (2) How can I get these off best?

ANSWER:—I can't give you all the formula of the chemical action that took place to bring rust stains from the new clean pail onto the cloth, but I can tell you how to prevent this from occurring again. Rub the insides of the pail with a soft cloth dampened with glycerin. To get the rust stains off, lemon juice and salt are still very popular. To make this team work faster hold the dampened stains over the steam from the tea kettle. Another fine agent is cream of tartar. Moisten the rust stains and rub with cream of tartar; roll it up for about an hour then wash in sudsey water.

NOTE:—All readers are invited to send in their home-making questions to Aunt Sal. If you wish a private reply enclose a stamped, self-addressed envelope. Address your letters to **AUNT SAL, care of The Farm and Ranch Review, Calgary, Alberta.**

□ □ □

School Lunch is a Vital Problem

ONE of the most important items of the fall school opening, and one of the countless worries it brings to the homemaker, is the preparation of school lunches. Not only do the lunch-toters demand variety, but they must also have nutritious food.

The Consumers' Section of the Dominion Department of Agriculture suggests each school lunch contain milk; some meat,

fish, eggs, dried beans or peanut butter; a vegetable or fruit, or both; breads, fats, or sweets to round it out.

If the school child cannot buy milk at school or where lunch is eaten, include it as milk, soup or cocoa in a thermos. The home economists of the Department suggest milk in puddings can be taken along in small mayonnaise jars or waxed paper containers, but be sure the lid is on tight!

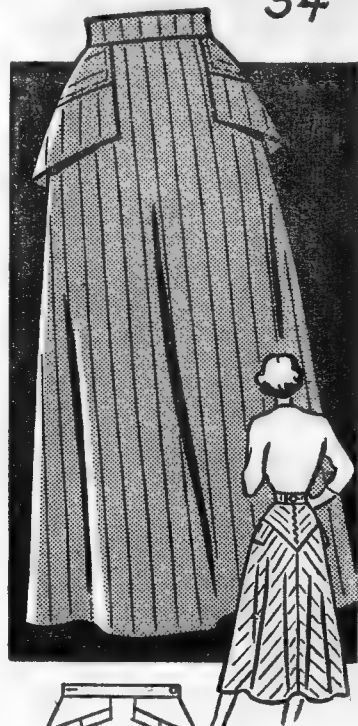
To handle the demand for variety, produce odd designs in sandwiches—cut them with cookie cutters or like jigsaw puzzles. Try a new filler once in a while.

□ □ □

MANY young people are inclined to think of sleep as time wasted. Actually sleep is necessary for the repairing and rebuilding of the body cells. Sleep is also the only time when the mind is at rest for, the minute we awake, whether we remain resting or not, our minds are immediately plunged into activity. Almost everyone needs eight hours sleep a day to remain happy and healthy. Remember, sleep combats fatigue and is essential to good health. Take all you need.

□ □ □

One-Yard Wonder Only One Yard 54"



9380
WAIST
24"—28"

SENSATIONAL! Just ONE yard of 54-inch fabric for a skirt that stars all the newest fashion! Yokes, pocket-flaps, back-fastening! And best yet—it's simplest sewing—no side seams! A costume maker!

Pattern 9380; waist sizes 24, 25, 26, 28. It takes one yard 54-inch.

This easy-to-use pattern gives perfect fit. Complete, illustrated Sew Chart shows you every step.

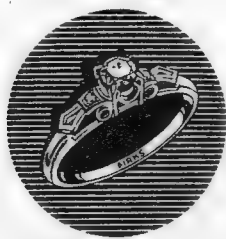
Send **TWENTY-FIVE CENTS** (25c) in coins (stamps cannot be accepted) for this pattern. Print plainly **SIZE, NAME, ADDRESS, STYLE NUMBER.**

Send your order to Farm and Ranch Review, Pattern Department, Calgary, Alta.

Allow ten days for orders to be filled.

"TEA as it should be!"

Think of all three when you buy tea... fine quality, choice flavor, full satisfying strength. Nabob gives you all three. Enjoy "tea as it should be." Buy Nabob, it's your best tea value.



Whatever the price...

Birks Diamond

Engagement Rings

are unsurpassed in Quality and Value.

Insurance Certificate and Sterling Silver

Presentation Case provided at no extra cost

its from

BIRKS

Jewellers

CALGARY

CATALOGUE ON REQUEST

**APPLE DUMPLINGS**

- 2 cups all-purpose flour
- $\frac{1}{2}$ teaspoon salt
- 4 teaspoons baking powder
- 3 tablespoons shortening
- $\frac{3}{4}$ cup milk
- 6 medium apples
- 6 tablespoons mincemeat or jam

Mix and sift flour, salt and baking powder. Cut in shortening. Add milk to make a soft biscuit dough. Roll out to $\frac{1}{4}$ inch thickness. Cut dough in six squares. Pare and core apples and place one on each dough square. Fill centres of apples with mincemeat or jam. Draw dough up around apples, pierce in several places with a fork. Place on a greased dish and bake in a moderate oven 350° F., until apples are tender, about 40 minutes. Serve with cream or a hot pudding sauce. Yield: Six servings.

DISCOVERY BARS

- $1\frac{1}{2}$ cups sifted flour
- $\frac{1}{2}$ cup sugar
- $\frac{1}{2}$ teaspoon baking powder
- $\frac{1}{2}$ cup shortening
- $\frac{1}{2}$ teaspoon vanilla extract
- 1 egg, beaten
- $\frac{1}{4}$ cup milk

Sift together flour, sugar and baking powder. Cut or rub in shortening. Combine vanilla extract, egg and milk. Add to flour mixture. Mix well. Spread one-third of batter into

greased 8 x 8 x 2-inch pan. Cover evenly with Date Filling. Spread with remaining batter. Bake in moderately hot oven (400° F.) 25 to 30 minutes. When cool, cut into bars.

DATE FILLING

- $\frac{1}{2}$ cup hot water
- $\frac{1}{2}$ cup sugar
- 1 cup chopped dates
- 2 teaspoons lemon juice

Combine hot water, sugar and dates in saucepan. Cook until thick. Cool. Add lemon juice. Yield: 16 Bars, 1 x 4 inches.

COTTAGE PUDDING

- $\frac{1}{4}$ cup shortening
- $\frac{2}{3}$ cup sugar
- 1 egg
- 1 cup milk
- 2 cups flour
- $2\frac{1}{2}$ level teaspoons baking powder
- $\frac{1}{2}$ teaspoon salt
- 1 teaspoon vanilla

Cream the shortening. Add the sugar, vanilla and beaten egg, and beat well. Stir in part of milk, alternating with the flour, salt and baking powder, which have been sifted together, until all is used. Bake in loaf pan in a moderate oven. Serve with warm fruit sauce or a plain sauce. Frozen fruits are good on it, too, when used as a short cake.

Renew your subscription to-day.

AUNT SAL SUGGESTS . . .

*December is the happy month,
That brings us Christmas
Day;*

*Let's try to do each Yuletide
task,*

In a joyous sort of way.

IT used to be that the two colors, red and green, were set aside as typical Christmas colors, but more and more in recent years these commonplace colors have been overshadowed by the gleam of tinsel until now it almost seems as if the whole Yuletide set-up were swamped in a bed of glitter. Isn't it about time we asked ourselves, "Is there too much tinsel in our observance of Christmas?"

When we use the word "tinsel" we can think of it in its broadest sense and that is: "Something with an attractive sparkle . . . but no true value." That is the way the dictionary defines the word and it challenges our attention. It is generally conceded that Christmas belongs mostly to the children and no person with a grain of heart would want to rob the trusting small fry of their Santa Claus. Please don't call me Preachy Prue if I suggest we are decking too much tinsel again if we let Santa take precedence over the Christ Child!

Have you noticed that many folk who talked as if the one unforgivable sin was to be old-fashioned have started resurrecting old-time customs again! I have. And it did my heart good.

Even in the matter of foods and how to serve them many heartily agree that "the old ways are best."

In the pages of a very ultra modern magazine I ran across the most

appealing picture . . . 'twas a treat to the eye and the palate alike. A mammoth turkey roasted to a golden image of delicacy. And all that made up the garnish on the oversized platter were tiny green sprigs of parsley and a necklace of ruby red cranberries. Just the jolly old red and green color scheme of yore.

I have seen other roasted turkeys all dolled up in silly tissue paper cuffs and collars and freakish dood dads of fruit and nuts that managed to make the robust fowl look like a very silly bird indeed. A turkey to be worthy of the name shouldn't only be filled to the bursting point with the best dressing you know how to make, it should have dignity and poise. And show me either a man or beast that could retain a dignified mien and be forced to wear tissue paper frills and furbelows!

All homemakers delight in trying out new ideas . . . new recipes and new ways of making their tasks lighter and happier. But in their seeking of the new they mustn't be too hasty in casting off the old! There is no time of the year when tradition plays as big a part as at Christmas time. There are unessential details that lend themselves to variation but to the children who are headed home for the big day with their mouths all shaped ready to eat Mother's turkey . . . plum pudding . . . fruit cake . . . sugar cookies . . . just the way she's always prepared them, what a let down it will be to find that this year Mother's decided to "go modern" and serve them an entirely new menu. (Don't do it, mother, if you value the feelings of your adoring family!)

Bye bye for new . . . and every good wish for Christmas.

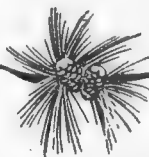


All the best

... in this glorious **MAGIC Fruit Cake!**

Bring it out proudly when friends and family congregate . . . your Magic Christmas cake! Sumptuous with fruits and nutmeats . . . candied peel, pineapple, icing . . . the most festive yet!

All year round, make your cakes tender and perfect-flavored with pure Magic Baking Powder. No waste of costly ingredients—and Magic costs less than 1¢ per average baking!

**MAGIC CHRISTMAS CAKE**

- | | | |
|--|---|--|
| 2 cups seedless raisins | 1 cup cut-up pitted dates | $1\frac{1}{2}$ tsps. ground cinnamon |
| 1 cup currants | $\frac{1}{2}$ cup cut-up candied pineapple or other candied fruits | $\frac{1}{2}$ tsp. grated nutmeg |
| $1\frac{1}{2}$ cups separated seeded raisins | 1 tbsp. finely-chopped candied ginger | $\frac{1}{2}$ tsp. ground ginger |
| $1\frac{1}{2}$ cups drained red maraschino or candied cherries (or a mixture of red cherries and green candied cherries) | 3 cups sifted pastry flour or $2\frac{3}{4}$ cups sifted hard-wheat flour | $\frac{1}{4}$ tsp. ground mace |
| 1 cup almonds | $1\frac{1}{2}$ tsps. Magic Baking Powder | $\frac{1}{4}$ tsp. ground cloves |
| $1\frac{1}{2}$ cups slivered or chopped mixed candied peels and citron | $\frac{3}{4}$ tsp. salt | 1 cup butter |
| | | $1\frac{1}{4}$ cups lightly-packed brown sugar |
| | | 6 eggs |
| | | $\frac{1}{4}$ cup molasses |
| | | $\frac{1}{3}$ cup cold strong coffee |



Wash and dry the seedless raisins and currants. Wash and dry the seeded raisins, if necessary, and cut into halves. Cut cherries into halves. Blanch the almonds and cut into halves. Prepare the dates, peels and citron, candied pineapple or other fruits, and ginger. Sift together 3 times, the flour, Magic Baking Powder, salt, cinnamon, nutmeg, ginger, mace and cloves; add prepared fruits and nuts, a few at a time, mixing until fruits are separated and coated with flour. Cream the butter; gradually blend in the sugar. Add unbeaten eggs, one at a time, beating well after each addition; stir in molasses. Add flour mixture to creamed mixture alternately with coffee, combining thoroughly after each addition. Turn batter into a deep 8-inch square cake pan that has been lined with three layers of heavy paper and the top layer greased with butter; spread evenly. Bake in a slow oven 300°, about 2½ to 3 hours. Let cake stand in its pan on a cake cooler until cold. Store in a crock, or wrap in waxed paper and store in a tin. A few days before cake is to be cut, top with almond paste and ornamental icing; just before cutting, cake may be decorated attractively.

CLASSIFIED BUYERS & SELLERS ADVERTISEMENTS AT LOW COST

SUBSCRIPTION RATES: To bona-fide farmers residing in B.C., Alta., Sask. and Manitoba when remittance is made direct to our office — 25c for 2 years or 50c for 5 years. Elsewhere in Canada, \$1.00 for 1 year. U.S.A. and foreign \$1.00 for 1 year.

DISPLAY ADVERTISING RATE: Seventy cents per agate line.
CLASSIFIED ADVERTISING RATE: 6 cents per word.

WARNING

IN the interests of our readers we are advising that when approached by a subscription salesman, you examine his credentials and make sure he is a fully credited salesman. We have received numerous complaints from subscribers, of men who claim employment with this publication, but have no official credentials from this office. They are not agents in our employ and readers are asked that when asked to renew or take out a subscription, to check all credentials. We cannot be held responsible for subscriptions taken by an unauthorized agent. All our agents carry a yellow card signed by an official of the "Farm and Ranch Review."

M. HOLMES, Circulation Dept.,
 Farm and Ranch Review,
 Calgary, Alberta

PURE-BRED BREEDERS' DIRECTORY

Cost \$2.00 for 6 months or \$3.00 per year.
 The breeders listed below will be glad to send particulars on request. Write them of your requirements.

ABERDEEN-ANGUS

Casa Loma Stock Farm, Accredited since 1924, Cathro & Anderson, R.R. 4, Calgary, Alta., Est. 1905.

Chas. Ellet & Sons, Sandy Lake Stock Farm, R.R. 2, South Edmonton, Alberta.

Highland Stock Farm, Accredited Herd, Chas. C. Matthews, Calgary.

HEREFORDS

Glenacres Hereford Ranch, Accredited herd, Harry B. Freeman, 1515-19th Ave. W., Calgary.

RED POLLS

Geo. Wilkinson, Crescent "Y" Farm, Accredited herd, Portage la Prairie, Manitoba.

Woodthorpe Farm, R.O.P. Herd, Victor & Alan Quelch, Morrin, Alta.

PALOMINOS

Gerrit Nyholt, North Battleford, Sask. Stock from Canadian registered Palomino stallion, Golden Trigger No. 30.

AGENTS WANTED

SALES AGENTS—Old established reliable Lumber Co., selling high quality B.C. Coast lumber, shingles, plywood, doors, windows and other millwork direct to Prairie consumers, want agents to put them in touch with those in their district who intend building. Liberal commission paid for spare time work. Good opportunity for carpenters and building contractors. Write giving occupation and other particulars to — Sales Manager, Box 437, Vancouver, B.C.

AUTO PARTS & ACCESSORIES

CAR OWNERS — Attention! Save money on your Auto Repairs and Accessories. Complete stock of new and used parts. Write for our Free Catalogue. Auto Wrecking Company, Limited, 263 - 273 Fort Street, Winnipeg, Manitoba.

BABY CHICKS

ORDER YOUR CHICKS FOR 1950 NOW. December, January and February hatched chicks will make you more money in 1950 than later hatched chicks. June to November is your highest egg prices nowadays. Make sure you have big eggs to market next summer. Send for 1950 price list for chicks, turkey poult, broiler chicks, laying and ready to lay pullets. Free catalogue. Twiddle Chick Hatcheries Limited, Fergus, Ontario.

BARRISTERS

W. KENT POWER, K.C.
 CONSULTANT
 on law of Divorce and Domestic Relations.
 517 - 7th Avenue W., Calgary. Ph. M 2460

BELTING

WRITE for Special Bargain List on Belting. The Premier Belting Co., 800 Main Street, Winnipeg.

BUSINESS OPPORTUNITIES

"Would you like a profitable home occupation? Send for particulars of our Circular Hand Knitting Machine which has been specially designed for the speedy production of socks and stockings."

THE HARRISON KNITTING & TEXTILE MACHINERY CO. LTD.
 UPPER BROOK STREET,
 MANCHESTER 13 ENGLAND

BABY CHICKS

PRINGLE CHICKS AND A COMPLETE POULTRY SERVICE!

It's quality and Complete Poultry Service at Pringle's, with greatly increased capacity and new streamlined equipment and now four modern hatcheries at your service. For top profits in poultry, Pringle again stresses the importance of EARLY chicks. By making out your order now from these prices you secure priority on your delivery date.

PRINGLE R.O.P. SIRE CHICKS

1950 Alberta Prices
 Unsexed Sexed
 Wht. Leghorns, Chicks Pullets
 R.O.P. Sired \$18.00 \$36.00
 New Hamp.,
 R.O.P. Sired 19.00 34.00
 Brd. Rocks,
 R.O.P. Sired 20.00 35.00
 Leg.-Hamp. Cross-
 bred, R.O.P. Sired 19.00 35.00
 96% acc. guaranteed on sexing.
 COCKERELS: W. Leghorn, \$4.00
 Heavy Breeds, \$11.00; Cross-
 bred, \$6.00 per 100.

For B.C. Prices write our
 Chilliwack Hatchery.
 PRINGLE'S BROAD BREASTED
 BRONZE APPROVED TURKEY
 POULTS, \$90.00 per 100
 For Complete Poultry Service
 order PRINGLE Early Chicks
 NOW.

PRINGLE

Electric Hatcheries
 CALGARY — EDMONTON —
 SOUTH EDMONTON and
 CHILLIWACK, B.C.

"ALBERTA'S LARGEST HATCHERY"

STEWART CHICKS for 1950 ALL CANADIAN R.O.P. SIRE

Now is the time to place your order for Stewart's Canadian R.O.P. Sired Chicks and Turkey Poults. This will give you your Chicks and Turkey assure you a choice delivery date and Poults both when you want them.

Specializing in Canadian R.O.P. Sired White Leghorns, Barred Rocks, New Hampshires, Rhode Island Reds, White Rocks, Light Sussex and Leghorn-Hampshire Crossbred Chicks. Also Broad Breasted Bronze Approved Turkey Poults.

100% live arrival GUARANTEED.

96% acc. on Pullet orders.

Write today for large illustrated catalogue and prices.

STEWART ELECTRIC HATCHERIES

602B - 12th Ave. W., CALGARY, Alta.

BUSINESS OPPORTUNITIES

FUEL BUSINESS — Sawdust and wood. Trucks: 1 flat deck, 1 dump, 300 units in storage. 2 chain saws, etc. Good mill contracts. Take late model car in trade. Suit 2 partners or family. Starck Fuels, Thetis Lake Rd., Victoria, B.C.

CHIROPRACTORS

DRS. Cassidy & Cassidy, Chiropractors, 27 Canada Life Building, Calgary.

CREAM SEPARATORS

GENUINE PARTS for all cream separators including — Vega, Melotte, Magnet, Sharples, McCormick-Deering, Domo, DeLaval, Anker-Holth and all others. For reconditioning send bowl complete, spindle and milk spouts. Petrie Separator Service, 373 Bowman Ave., Winnipeg.

EDUCATIONAL

MEN WANTED to Learn Barbering. No former experience required. Light, clean, inside work. Offers steady employment, big pay. Many positions now open. Opportunities for advancement. Write Moler Barber College, 814 Centre St., Calgary, or 10246 - 101st Street, Edmonton.

BIBLE READERS—SEARCH AND MAKE SURE. "A Declaration of Truth" has helped many. It's free — from Luard, Clover Bar, Alta.

FARM EQUIPMENT

BUY NOW — BODIE, FOREVER AND Beattie grain cleaners, 14 sizes, wire, gas engines. Mail order. Chipperfield Sales Agency, Prince Albert, Sask.

PUMPS, MOTORS, ENGINES

Diesel, Nat. Gas
 MACHINERY SUPPLIES
 New and Used

WILKINSON & McLEAN Limited
 615 Eighth Avenue West, Calgary
 10235 - 103rd Street, Edmonton, Alta.

CASE REPAIRS for all Case machinery. Full stock of Combine and thresher parts. Your enquiries promptly attended to. A. E. Hobbs, Farm Equipment, Calgary J. I. Case Dealer.

Your grain cleaning equipment is available now in quality and price to satisfy your needs.
 32" and 40" Viking Fanning Mills, 32" and 40" Bull Dog Fanning Mills with 10' elevators.
 Carter Discs with 12' single or double elevators.
 For further information call in or write:

Waterloo Machinery

ALBERTA LIMITED
 629 - 10th AVE. W. Phone M 9927
 CALGARY

BABY CHICKS

YOUR
GUARANTEE



OF
QUALITY

BABY CHICKS

TURKEY POULTS

SMITH'S "Gold Seal" breeding stock is carefully hand-picked for true-to-breed qualities, stamina, vigor, vitality. This CAREFUL SELECTION is a prime factor in poultry and egg profits — and, your guarantee of quality when you order Smith's "Gold Seal" baby chicks. Order now from these prices:

1950 Alberta Prices
 SMITH'S "GOLD SEAL" BABY CHICKS
 Per 100 Sexed
 White Leghorn, Unsexed Sexed Pullets
 R.O.P. Sired \$18.00 \$36.00
 New Hampshires,
 R.O.P. Sired 19.00 34.00
 Hamp.-Leghorn Cross-
 bred, Approved 17.00 35.00
 96% accuracy guaranteed in sexing and 100% live delivery.

SMITH'S "Gold Seal" Approved BROAD-BREASTED BRONZE TURKEY POULTS for March delivery, \$90.00 per 100

This season make Smith's "Gold Seal" quality the foundation for bigger poultry profits. Book your order now.

SMITH'S CHICKERIES AND TURKEY POULT HATCHERY
 10001 - 82nd Ave., Edmonton Ph. 32844

BANTAMS

MURPHY'S COCHIN BANTAMS — Offering young stock for sale in Blacks, Buffs and Whites. H. R. Murphy, 116 Spadina Ave., Chilliwack, B.C.

Renew your subscription to-day.

FARM EQUIPMENT

WETMORE KNIFE TYPE HAMMER MILL — With patented single plate rotor — an exclusive Wetmore feature. Only one moving part — only two bearings. Efficient, simple and trouble free. It also has the patented knife-type screen, a proved Wetmore innovation. Replaces regular type screen for uniform control of hay and roughage textures. Waterloo Machinery (Alberta) Limited, Edmonton, Alberta. Phone 22206.

FARMS & RANGES FOR SALE

FRASER VALLEY FARMS — Over 1,000 to choose from. If for sale, we have it. PEMBERTON'S, 418 Howe St., Vancouver, B.C. Selling Farm Lands since 1887.

FLAVOR PRODUCTS

SCOTCH, GIN, RUM, RYE, BRANDY and liqueur flavors. Send \$1 for two bottles, postpaid. FLAVOR PRODUCTS, Dept. F., 52 Albert St., Winnipeg.

FOR SALE

FOR SALE — ABERDEEN-ANGUS BULL, purebred, Ellett stock; eight months old. Not registered. Price, \$100.00. Apply to Mr. H. M. Wells, P.O. Box 97, Tompkins, Sask.

FOR SALE — Men's work socks made from 3 lbs. wool, ribbed legs with white tops and reinforced heels and toes, \$6 per dozen pair. Also Hi-boot style, all-wool sock with reinforcing, \$4 per dozen pair. Money order with order, plus ten cents postage. Chart Knitting Mills, Penetang, Ontario.

FUR BEARING ANIMALS

SELLING MINK, FOXES. Delivery now or April. Fencings, supplies stocked. Dand's, Swift Current, Sask.

GEESSE

TOULOUSE GANDERS, \$8; HENS, \$7. Immediate shipment. Mrs. P. Bannert, Grand Forks, B.C.

HELP WANTED — FEMALE

BE A HAIRDRESSER

Many women wanted — Learn Hairdressing — Splendid opportunity — Better paying positions — Personal work — Catalogue free — Canada's greatest system. Write: Marvel Hairdressing Schools, 326A - 8th Ave. W. Calgary, or 10244 - 101st St., Edmonton, Alta.

HIDES & HORSEHAIR

SHIP your green and dry cattle hides, green horsehides, sheepskins, horsehair, raw furs to J. E. Love & Sons, Calgary, for best market values.

HORSE TRAINING

"HOW TO BREAK AND TRAIN HORSES" — A book every farmer and horseman should have. It is free; no obligation. Simply address Beery School of Horsemanship, Dept. 6412, Pleasant Hill, Ohio.

MACHINERY

"SNOWPLANE ENGINES", Menasco "Super Pirate" 125 H.P., Gypsy 130 H.P., Kinner 5-cylinder radial 125 H.P., one only Continental 65 H.P.; repair parts, instructions, accessories. M. Galbraith, 32 Delaware Ave., Burlington, Ont.

MEDICAL

HAVE YOU THAT TIRED RUN-DOWN feeling, stomach weakness, Rheumatic pains, etc. Write Lang's Mineral Remedies, 3776 West 39th Ave., Vancouver, B.C.

MISCELLANEOUS

LIGHTNING DESK MODEL ADDING MACHINE, \$19.95, adds to 99,999.99, subtracts, multiplies, divides. All steel, fast and accurate. Deposit \$5.00, balance C.O.D. L. L. CUTLER, Travers, Alta.

MAKE \$10 to \$20 DAILY (Part or Full Time) and more: Recommending our low cost (low as \$1 month) Hospital-Sickness — Accident — Death and new Polio Certificates. For families or individuals. Certificate benefits good anywhere in the world. Old Reliable Company — rated A by Dunnes. Information — Working kit free. Write American Farmers Insurance Company, Goodrich Bldg., Dept. 115, Phoenix, Arizona, U.S.A.

INFORMATION FORMULAS, PLANS on anything you desire. Money refunded if not satisfied. Mailing service, 46 E. 47th Ave., Vancouver, B.C.

MISCELLANEOUS

COWBOY BOOTS — Hand made. Send for description. Wellington Boot, 113 S. Ont. St., Kitchener, Ont.

MEN'S HORSEHIDE MITTS, hair inside, \$2.00. Gauntlets, \$3.50 pair. Scatter rugs, \$1.00 postpaid. Western Leather Goods, Moose Jaw, Sask.

BLANKETS, CLOTH YARNS, batts, etc., made from your own sheep's wool, or if you have old woollens we will remake them into blankets. Write Brandon Woollen Mills Co., Ltd., Brandon, Man.

NURSERY STOCK

HOW TO GROW DWARFED TREES — Fruit, Evergreens. Instructions, 25c. Williams Publications, Box 187-F, Toronto 1, Ontario.

OPTOMETRIST

J. DRAYTON SPENCE, Optometrist. Telephones: Bus. R. 1808, Res. S 0380, 1015 Greyhound Bldg., Calgary, Alta.

PERSONAL

H. & T. MATRIMONIAL MAGAZINE — Names, addresses, descriptions. 3 copies combined, 50c. Box Z100, Hoadley, Alta. Ladies free. Send particulars.

60 CENTS — Your handwriting analyzed. Complete future, true facts about yourself, when you will marry, business ability, travel, talents revealed, questions answered. Madame Madonna, Box 545, Regina, Sask.

"R. & S." POWDER IS A RELIABLE, safe herbal remedy that has been manufactured in Edmonton for over thirty years. The hundreds of grateful letters we have received is ample proof that "R. & S." does get good results. If you have that nervous stomach, poor elimination, those rheumatic conditions you can't seem to get rid of, or that tired, rundown feeling, try "R. & S." Powder. Sold at all good drug stores. Prices: 2 weeks only \$1.50; 1 month, \$3.00; 2 months, \$5.00. If your druggist does not handle "R. & S." you may order it direct from the manufacturer, J. C. McIntyre, 10022 - 102nd Street, Edmonton, Alta.

YOUR PERSONAL ASTROLOGER will study your Birth Chart and prepare Forecast for you individually. My readings are scientific and accurate. Write and receive my explanatory letter. Mrs. Eva Winfield, P.O. Box 196, Vancouver, B.C.

FREE INFORMATION — "Choosing a Career". Box 3542, Station B, Winnipeg, Manitoba.

ARE YOU LONELY? SEND 25c FOR big sweetheart magazine, descriptions and pictures, lonely men and women seeking friendly correspondence or marriage. Madame Madonna, Box 545, Regina, Sask.

LOVELY? LET CANADA'S GREATEST CLUB introduce you to nice people desiring early marriage. Many with means. Nationwide membership. Proven results since 1924. Free particulars in plain, sealed envelope. C. C. Club, Box 128, Calgary, Alta.

PHOTO FINISHING

SENSATIONAL — This ad. is valuable. Any 8-exposure roll developed and a "Double-size deckle-edge" enlargement from each negative all for 29c. Send this ad. with roll and get special price. Regular price 35c. Only one to a customer. Photo Research Lab., Department E, Drawer 370, Regina, Sask.

THIS AD. IS VALUABLE — Send this ad. and only 29c. with 8 exposure roll or 8 negatives and receive 8 sparkling prints complete in album—regular price 35c — only one to a customer — also Free "Library Enlargement" coupon. Album Photo Service, Dept. 159-A, Drawer 220, Regina, Sask.

RAW FURS

TRAPPERS!! Now available FREE to any Trapper, on request, complete NEW Fur Price List and Supply Catalogue. Gives latest Market information and Prices; also contains full selection of Traps, Animal Lures, Rifles, Ammunition, most everything required for Trapping, all moderately priced, available for immediate delivery. Terrific demand presently prevails for MINK, WEASEL, SQUIRREL, JACK RABBITS. We are paying as high as \$50.00 for Mink; \$3.50 for Weasel; 35c for Squirrel; 60c for Jack Rabbit Skins. ALL Furs wanted and Top Market Prices GUARANTEED. Ship every skin you have IMMEDIATELY. Can also handle Beef and Horse Hides, Horse Hair, etc., and Highest Prevailing Prices assured. (Hides accepted ONLY at Winnipeg - Regina - Edmonton.) Whether purchasing Trapping supplies or marketing Furs, Hides, Horse Hair, etc., you will definitely find it advantageous to deal with "SHUBERT". Write for Price List, Shipping Tags, etc., to Dept. 75.

A. B. SHUBERT CO.
WINNIPEG — MANITOBA
Receiving Offices: Regina — Edmonton — Vancouver.

REAL ESTATE

SIDNEY WATER FRONTING — New five-roomed house for sale. Write for particulars to Box 143, Sidney, V.I.

TIPS ON WELDING

Welding rods vary greatly here's how and why

By J. W. de BOER

MANY welders have trouble choosing the proper electrode for the job and the great variety of fancy names given by the manufacturers does not make the choice any easier.

Contrary to the too often believed theory that the electrode wire differs greatly in different electrodes, the wire used for mild steel electrodes is practically identical. It is the coating that gives the varying properties to an electrode. An analysis of mild steel electrode shows a

carbon content from 0.05% to 0.30%.

It is the carbon content that gives to a certain extent the arc its sound. A low carbon content electrode will give a softer arc than a high carbon. One of the latest theories on arc welding seems to have proved that it is for instance not possible to weld overhead with a carbon-free electrode on carbon-free steel. The carbon in the electrode during welding, this theory claims, combines with the oxygen in the air to form carbon monoxide, and this seems to happen in the form of small explosions. It is these explosions that give the arc its sound and propels the metal from the electrode to the base metal.

Modern electrodes can be identified from their classification numbers as set up by the American Welding Society (A. W.S.) and the Canadian Standard Association (C.S.A.) the "E" denotes that the electrode is for Electric Arc Welding. The first two figures indicate the minimum tensile strength in thousands of points—E60 . . . The third figure tells us what position this electrode may be used in:—

1. All positions.
2. Horizontal and flat only.
3. Flat position only.

The last figure is combined with the others to give us a complete picture of the electrode characteristics.

E6010 — These electrodes to be used on D.C. Reverse polarity only. Because the coating has a high cellulose content it is unwise to use too high a current setting with this type of electrode.

E6011 — This electrode was developed for A.C. transformers because E6010 can not be used

on A.C. It is very close in characteristics to E6010, but falls down on its penetrating qualities.

E6012 — This is a general purpose electrode usually tan or light brown in color. Good electrode for building up and poor fit-up. Penetration is lower than either E6010 or E6011. The physical properties of this rod are poorer than most other types.

E6013 — This electrode was developed for A.C. welding, usually has a heavy coating and is very easy to weld with.

E6015 and E6016 — Commonly known as low hydrogen rod developed for the welding of steel with more than 0.30% carbon and alloy steels. The slag on the weld made by this rod is very hard to remove, but the rods can be used to weld medium carbon, low alloy and sulphur-bearing steels without trace of cracking in the weld.

E6015 is for D.C. Reverse and **E6016** for A.C. When the composition of the steel is not known a few rods of this type can be very useful. Many welders used to have a few stainless steel electrodes on hand and when a job to be welded was suspected of having more than a low carbon content, they would use for the first few phases stainless steel electrodes, but because of their high cost, the E6015-16 type have taken over to a large extent.

E6020 — Horizontal or flat position only. Heavy mineral-coated electrode. Usually comes in 18" length A.C. and F.C.

E6030 — Flat position only A.C. or D.C. The physical properties of these two types, E6020 and E6030 of electrode are very good. Many welders would do well to use this type of rod, higher current densities can be used resulting in greater speed and faster welding, while the resulting weld has better physical properties than welds made with most other types of electrode.

REAL ESTATE



CITY HOMES REAL ESTATE

All Types of Insurance—
HAIL, HOUSEHOLD, etc.

**Campbell &
Haliburton Ltd.**

513 - 8th Ave. W.,
CALGARY — ALBERTA
M 7044 — PHONES — M 7034

SEVEN-ROOM NEW STUCCO HOUSE —Plaster inside; cabinet kitchen and Pembroke bathroom with modern, full-size basement, etc., located in New Westminster, B.C. Bus goes past every twenty minutes past house. Apply 1134 Ewen Ave., New Westminster, B.C.

SONG WRITERS

POEMS SET TO MUSIC — Songs copyrighted. Free examination. Send poems. Harmonyist, Box 68, Weston, Ontario.

FREE TO SONGWRITERS—Sample copy of "THE INDEPENDENT SONGWRITER", America's finest songwriters' magazine. C. Miller, Field, B.C. (Agent.)

POEMS wanted for musical setting. Send your best poem, any subject, for immediate examination and useful Rhyming Dictionary. RICHARD BROTHERS, 18 Woods Building, Chicago.

SPARROW TRAPS

NEW SPARROW TRAP. Rid your premises of disease-carrying, crop-destroying sparrows. Elevator-type, humane, factory-built. Guaranteed. Nothing like it. Write for money-back trial offer and free literature. Farmers Supply Company, 706, Carman, Man.

STAMMERING

STAMMERING CORRECTED — For free, helpful booklet write William Dennison, 543 R. Jarvis St., Toronto.

TANNERS

TANNERS, Furriers, Fur Dressers—Furs stored and repaired, robe and leather tanning. Taxidermy. The Briggs Tannery. Offices and Factory, Burnside, Calgary, Alberta. Phone E 5430.

TRAPPERS' SUPPLIES

COYOTE TRAPPERS—Do the coyotes go just so close to your sets and no closer? These same coyotes will go right up to your sets without fear no matter how trap-wise. Results guaranteed. Fred Tyree, 1029 Fourth, Bremerton, Washington.

TURKEYS

RAISE TURKEYS THE NEW WAY — Write for free information explaining how to make up to \$3,000.00 in your own backyard. Address NATIONAL TURKEY INSTITUTE, Dept. 182, Columbus, Kansas.

JUST TO REMIND YOU



that the season is here again when you will soon need your next copy of the **NEW IMPROVED NELSON FARM RECORD**, and to get your order in early so that you will have it for Jan. 1st. To you who have never used this system of **FARM BOOKKEEPING** we say, Don't pass up the opportunity to use this wonderful system in 1950. Get your order in now and be ready to start using this simple method with the new year. Thousands now use it and would not be without it.

NELSON FARM RECORD

714 - 7th Ave. West, Calgary, Alberta
Please send me one copy of the **NELSON FARM RECORD** postpaid. I am enclosing Money Order

for \$ _____ Send _____ Year Size.

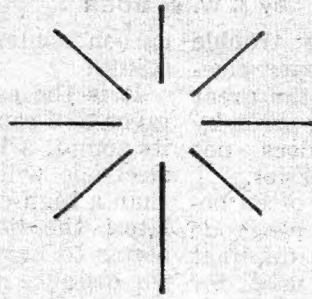
NAME _____

ADDRESS _____

1-yr. size, \$1.85—3-yr. size, \$3.75

Fertilizer Results

This year's results of the use of chemical fertilizer in rod-row tests conducted on nine Illustration Stations in Manitoba indicate that ammonium phosphate 11-48 applied at the rate of 25 and 35 pounds per acre, when used for crop on summer-fallow gave the largest return in yield on a comparative basis. Under similar conditions ammonium phosphate 16-20 fertilizer applied at the rate of 35 pounds per acre was a very close second. Potash applied in the formulation 0-0-51 at 30 pounds per acre gave no significant increase in yield over the check plots on any of the stations. The greatest response to fertilizer occurred on the northern stations and at points where rainfall was most abundant.—Brandon.



Christmas is a time of words

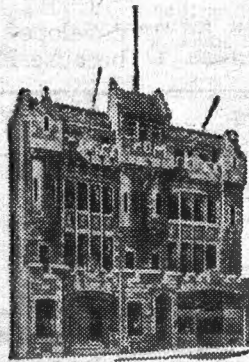
Among other things Christmas is a time of words.

There are words that wish us well, that praise,
that pay compliments and offer thanks for our many blessings.

And there are the words of the young—innocent words,
full of the wonder of the day; and still other words,
spoken over the vast spaces of a continent to waiting loved ones.

And there are words that are oft left unspoken,
words revealed only by a firm handclasp
or a trembling tear; and words too, that remind us
of seasons gone by and of those to come.

And always—as long as time itself—there will be
the familiar words—rich and splendid beyond compare,
words alive forever with warmth and sincerity,
and for which there is no substitute,
words that are the finest of all words at this time . . .
those words which say *Merry Christmas!*



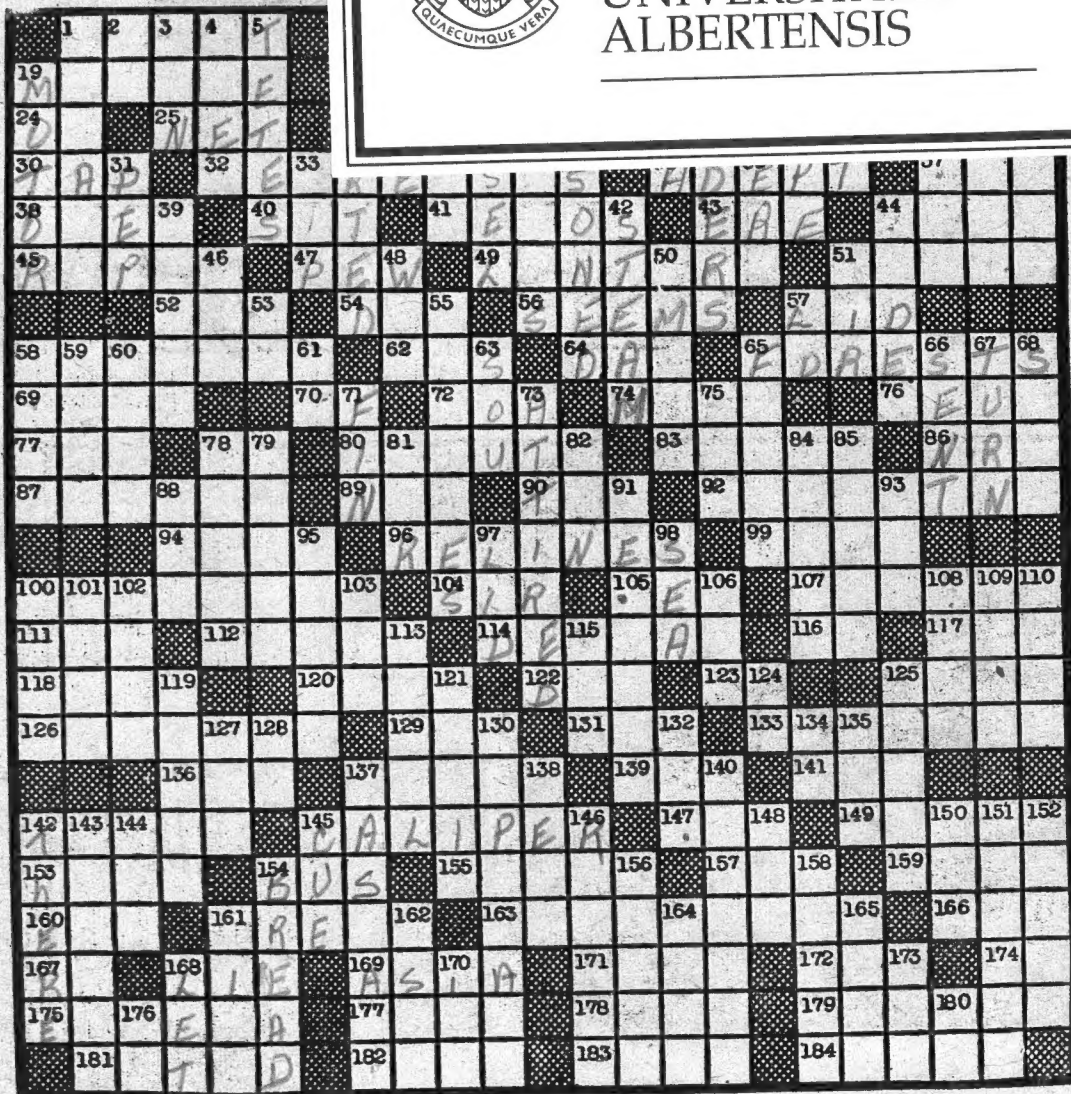
The House of Seagram



OUR C



EX LIBRIS
UNIVERSITATIS
ALBERTENSIS



HORIZONTAL

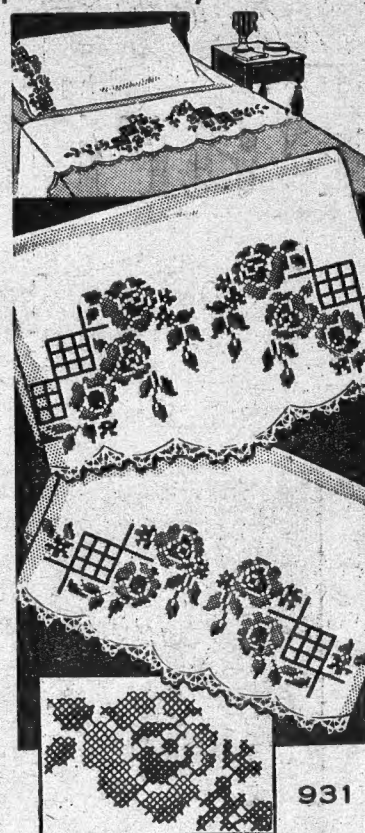
- | | | |
|----------------------|------------------------|------------------------------|
| 1 Raise | 62 Encore (Fr.) | 123 Indefinite article |
| 6 Flat-bottomed boat | 64 Obstruct | 125 Drug |
| 10 Quarrel | 65 Wooded tracts | 126 Lessees |
| 14 Pretends | 69 Fibre plant | 129 Seed covering |
| 19 Mental state | 70 Preposition | 131 Humor |
| 20 Ripped | 72 Extinct bird | 133 Fervid |
| 21 Facility | 74 Tableland | 136 Organ openings |
| 22 Part of leafstalk | 76 Wax | 137 Ladled |
| 24 Hindu ejaculation | 77 Danish division | 139 Mongrel |
| 25 Seine | 78 The Buddha | 141 Prefix: more than |
| 26 Extent | 80 Attribute | 142 Particular episode |
| 27 Among | 83 Carved pole | 145 Measuring instrument |
| 28 Palm leaf (var.) | 86 Formerly | 147 Procure |
| 29 Spanish article | 87 List | 149 To cloud |
| 30 Knock lightly | 89 Nothing | 153 Now |
| 32 Diminishes | 90 An appendix | 154 Conveyance |
| 35 Well-skilled | 92 Chose | 155 Europeans |
| 37 Insane | 94 Toward the mouth | 157 Race of lettuce |
| 38 Molding | 96 Supplies new lining | 159 Mysterious saying |
| 40 Rested | 99 Fodder pit | 160 Antlered animal |
| 41 Greek island | 100 Chorus hymns | 161 Embrace |
| 43 Before | 104 Title | 163 Groups of soldiers |
| 44 Inlet | 105 Prefix: new | 166 Prickly seed case |
| 45 Drive back | 107 Sums | 167 A state (abbr.) |
| 47 Church bench | 111 Event | 168 Fabrication |
| 49 Fuzz | 112 Openings | 169 Orient |
| 51 Quail | 114 To behave | 171 Greedy |
| 52 Knock | 116 Plural ending | 172 Part of head |
| 54 French: of the | 117 French: wine | 174 Prefix: concerning |
| 56 Appears | 118 God of war | 175 Expression of triumph |
| 57 Cover | 120 Pheasant broods | 177 Exact |
| 58 Followers of Shem | 122 Click beetle | 178 Path |
| | | 179 The spring of life (pl.) |
| | | 181 Matched |
| | | 182 Grit |
| | | 183 Terminations |
| | | 184 Factions |

VERTICAL

- | | | |
|----------------------|-------------------------------|---------------------------|
| 1 Allegiance | 57 Preposition | 115 To cut |
| 2 Conjunction | 58 District in Germany | 119 Rock |
| 3 Man's name | 59 Sailors' patron saint | 121 Stable |
| 4 Winter vehicle | 60 Clever sayings | 124 Symbol for nickel |
| 5 Heads (Fr.) | 61 Therefore | 125 Restrain |
| 6 Began | 63 French coin | 127 Unit of force |
| 7 Center | 65 The Parcae | 128 Sun god |
| 8 Mountain nymph | 66 Dispatched | 130 Took leave |
| 9 Carnivorous mammal | 67 Corner | 132 River boat |
| 10 Spiced | 68 Spore | 134 Japanese drama |
| 11 Knave in cards | 71 Fish limb | 135 Vat |
| 12 Continent | 73 Clothed | 137 Short-legged hounds |
| 13 Hay spreaders | 75 Danger signal | 138 Sand hill (var.) |
| 14 Incline | 78 Untamed | 140 Retreats |
| 15 A handle | 79 Pope's veil | 142 At that place |
| 16 Turkish officer | 81 Russian community | 143 Gaseous element |
| 17 Greek letter | 82 To bring forth | 144 Irritate |
| 18 Untwisted silk | 84 Choice part | 145 Billiard stick |
| 19 Engine | 85 Greek island (var.) | 146 Luxurious repast |
| 23 Church officer | 88 Jutting rock | 148 Measure of weight |
| 31 Energy (slang) | 91 Of a characteristic nature | 150 Confer rank upon |
| 33 Top | 93 Portable bed | 151 Accustoms |
| 34 Nome in Greece | 95 Church officers | 152 Shallow lakes |
| 36 Bitter vetch | 97 Cover | 154 Staff of life |
| 37 Pile of hay | 98 Body of water | 156 Jewish month |
| 39 Weird | 100 Scorch | 158 Walks |
| 42 Vapor | 101 Rabbit | 161 Kind of fish |
| 44 Vestment (pl.) | 102 Candid | 162 Girl's name |
| 46 Latvian coin | 103 The heavens | 164 Intention |
| 48 Texture | 106 South American | 165 Hindu women's garment |
| 50 Ant | 108 English river | 168 Permitt |
| 51 The heart | 109 Brims | 170 Brightest star |
| 53 Hebrew letter | 110 Dirk | 173 Free |
| 55 Medicinal herbs | 113 Part of flower | 176 Symbol for radium |
| | | 180 Pronoun |

SOLUTION NEXT MONTH

Quick Beauty



CROSS-STITCH rose motifs are simple to embroider; space to put an initial if you wish. Use varied colors or shades of one.

Eight-to-the-inch. Crosses are done quickly. Pattern 931; transfer; one 6 x 24 inch; two 5 x 13½.

Laura Wheeler's improved pattern makes needlework so simple with its charts, photos and concise directions.

Send **TWENTY-FIVE CENTS** in coins (stamps cannot be accepted) for this pattern to Farm and Ranch Review, Needlecraft Dept., Calgary.

□ □ □

Quilted and Cosy



YOUR heart is on your boots—and aren't they simply beauts? Look—just **THREE** pattern parts to each boot. Easy sewing.

Gay quilted boots to keep you warm! Pattern 849 has pattern in small, medium, large, extra large.

Send **TWENTY-FIVE CENTS** in coins (stamps cannot be accepted) for this pattern to Farm and Ranch Review, Needlecraft Dept., Calgary, Alberta.

UNIVERSITY LIBRARY
UNIVERSITY OF ALBERTA